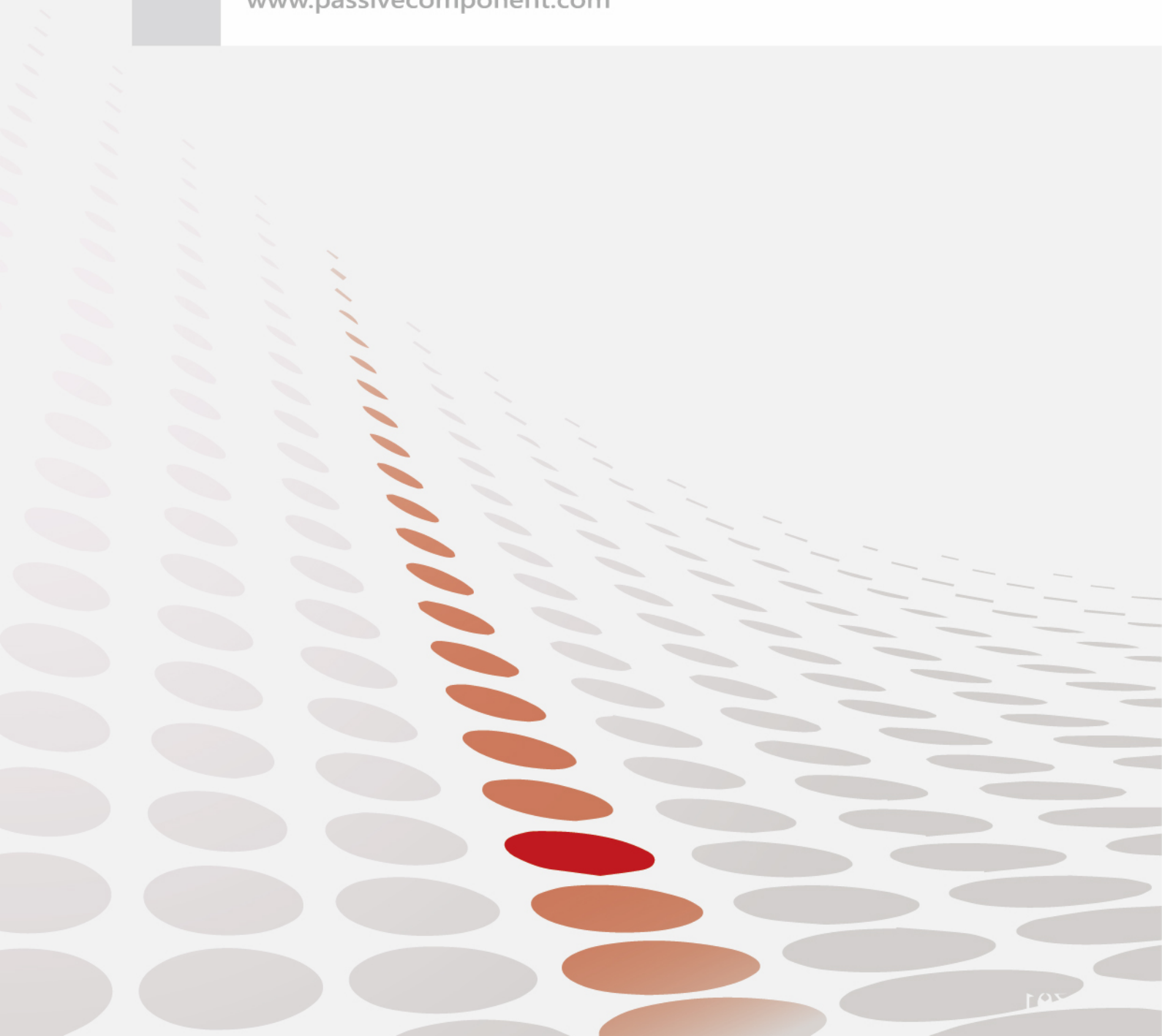


PSA PASSIVE SYSTEM ALLIANCE
WALSIN TECHNOLOGY CORPORATION

RF Devices & Customer made Antenna

www.passivecomponent.com



Product Portfolio



IEC-63 Nominal Resistance/ Capacitance

E1	100																							
E3	100								220								470							
E6	100				150				220				330				470				680			
E12	100		120		150		180		220		270		330		390		470		560		680		820	
E24	100	110	120	130	150	160	180	200	220	240	270	300	330	360	390	430	470	510	560	620	680	750	820	910
E96	100	102	121	124	147	150	178	182	215	221	261	267	316	324	383	392	464	475	562	576	681	698	825	845
	105	107	127	130	154	158	187	191	226	232	274	280	332	340	402	412	487	499	590	604	715	732	866	887
	110	113	133	137	162	165	196	200	237	243	287	294	348	357	422	432	511	523	619	634	750	768	909	931
	115	118	140	143	169	174	205	210	249	255	301	309	365	374	442	453	536	549	649	665	787	806	953	976

E6: $\sqrt[6]{10}\approx1.46$ E12: $\sqrt[12]{10}\approx1.21$
E1 series resistance:1Ω,10Ω,100Ω,1000Ω,10000Ω,100000Ω

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*The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

*This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the datasheet approval for product specifications before ordering.

■ CHIP ANTENNA

RF	ANT	321612	0	A	5	T
Type code	Product code	Dimension code	Unit of dimension	Application	Specification	Packing
RF/RG: device	ANT : Antenna FRA : Free Antenna ECA : SMD Antenna	Per 2 digits of Length, Width, Thickness 321612 = Length = 32 Width = 16 Thickness = 12	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band E : GPS 1.5GHz L : 2.4/5.2/5.8GHz Tri Band W : WiMAX	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ HIGH FREQUENCY MULTILAYER BAND PASS FILTER

RF	BPF	322515	0	A	4	T
Type code	Product code	Dimension code	Unit of dimension	Application	Specification	Packing
RF device	BPF : Band Pass Filter	Per 2 digits of Length, Width, Thickness 322515 = Length = 32 Width = 25 Thickness = 15	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band W : WiMAX K : ISM 5.2/5.8 Dual Band	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ HIGH FREQUENCY MULTILAYER BALANCED FILTER

RF	BPB	252009	0	A	7	T
Type code	Product code	Dimension code	Unit of dimension	Application	Specification	Packing
RF/RG: device	BPB : Balanced Type Band Pass Filter	Per 2 digits of Length, Width, Thickness 252009 = Length = 25 Width = 20 Thickness = 09	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band W : WiMAX	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ HIGH FREQUENCY MULTILAYER LOW PASS FILTER

RF	LPF	201211	0	A	0	T
Type code	Product code	Dimension code	Unit of dimension	Application	Specification	Packing
RF device	LPF : Low Pass Filter	Per 2 digits of Length, Width, Thickness 201210 = Length = 20 Width = 12 Thickness = 11	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band K : ISM 5.2/5.8 Dual Band	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ HIGH FREQUENCY MULTILAYER HIGH PASS FILTER

RF	HPF	252009	0	L	0	T
Type code	Product code	Dimension code	Unit of dimension	Application	Specification	Packing
RF device	HPF : High Pass Filter	Per 2 digits of Length, Width, Thickness 252009 = Length = 2.5 Width = 2.0 Thickness = 0.9	0 : 0.1 mm 1 : 1.0 mm	L : 2.4/4.9/5.2/5.8GHz Multiband Application	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ BALUN TRANSFORMERS

RF	BLN	201208	0	A	4	T
Type code	Product code	Dimension code	Unit of dimension	Application	Specification	Packing
RF/RG: device	BLN : BALUN	Per 2 digits of Length, Width, Thickness 201208 = Length = 20 Width = 12 Thickness = 08	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band K : ISM 5.2/5.8 Dual Band	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ DIPLEXER

RF	DIP	201210	0	L	0	T
Type code	Product code	Dimension code	Unit of dimension	Application	Specification	Packing
RF device	DIP : Diplexer	Per 2 digits of Length, Width, Thickness 201210 = Length =20 Width = 12 Thickness = 10	0 : 0.1 mm 1 : 1.0 mm	L : 2.4/4.9/5.2/5.8GHz Multiband Application	Code from 0~9 dependent on different electrical specification	T : 7" Reeled G:13" Reeled

■ TRIPLEXER

RF	TIP	2109	A	T	M0T63
Type code	Product code	Dimension code	Pin Define	Application	Specification
RF device	TIP : Triplexer	Per 2 digits of Length, Width, Thickness e.g. : 21 = Length 2.0 mm, Width 1.2 mm, 09= Thickness 0.9 mm	Design Code	T: GPS/ ISM 2.4GHz/5 GHz	Design Code

■ COUPLER

RF	CPL	18	10	B	2450	T
Type code	Product code	Dimension code	Coupling Factor	Unit	Application	Packing
RF device	Coupler	e.g. : 18 = Length 16, Width 08, 15= Length 10, Width 05,	10 dB	dB	2.4 GHZ ISM Band	T : 7" Reeled

■ SAW FILTER

SF	1411	2595	B38	03	T
Type code	Dimension code	Frequency	Application	Serial Number	Packing
SF:SAW Filter DF:SAW DUPLEXER	Per 2 digits of Length, Width 1411= Length 1.4mm Width 1.1mm	2595:Center Freq (2595MHz)	B38:Band38	Design Code	T: 7" Reeled

■ ANTENNA SWITCH

RF	ASW	D	H2418A	T
Type code	Product code	Application	Serial Number	Packing
RF device	ASW: Antenna Switch	D: SP8T	Design Code	T: 7" Reeled

■ Dipole, PCB, FPA and Metal Antenna

RF	DPA	8709	00	S	B	A	B	8	01
Type code	Product code	Dimension code	Cable Length code	Connector Brand code	Type of Connector code	Application code	Project status code	Wire Diameter code	Project code
RF device	DPA : Dipole Antenna					1:1GHz 3:3GHz 4:4GHz 5:5GHz 6:6GHz 0:0GHz A:ISM band 801.11b(2.4GHz) B:GSM dual band(900MHz/1800MHz) C:3G(800/900/1800/1900/2100MHz) D:DECT(1.9~1.95MHz) E:2.5~2.7GHz F:NFC+Ferrite Sheet G:GPS(1.575GHz) H:840~845/1430~1444/2408~2480MHz J:10GHz L:801.11b/a tri-band(2.4/5.x GHz) M: 5G NR +Sub-6G+5G 5G NR : 617~960/1710~2690MHz Sub-6G : 3300~4200MHz 5G : 5150~7150MHz N79 : 4.4~5GHz N:NFC(None Ferrite Sheet) P:WPC R:RFID(868~960MHz)(922~928MHz) (902~928MHz)(868MH)(950MHz) S:UWB(6~7GHz) T: 5G NR (698~960MHz/1710~2700MHz) (2.3~2.4GHz)(2.5~2.7GHz) U:UHF(470~860MHz) Lora(433、868、915MHz) Sigfox(868MHz/915MHz) V:TVWS(470~820MHz) W:WCDMA(1710~2170MHz)			
	PCA : PCB Antenna	Per 2 digits of Length, Width 8709 = Length = 87 Width = 9.95 4305 = Length = 43 Width = 5	2 digits for cable length 00= None Cable, 10= Cable Length: 10cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None		B: MP T:During Test X: Pilot run	0:None 1:0.81 2:0.132 3:0.13 4:Low Loss0.13 5:0.50 6:RG316 7:0.137 8:RG178 9:Low Loss0.137 A:RG174 B:1.5C-2V	01~99 series number
	FPA : FPA Antenna								
	MTA : Metal Antenna								

■ Cable Assembly and Connector

RF	CBA	1613	10	I	M	3	B	7	01
Type code	Product code	Dimension code	Cable Length code	Connector Brand code	Type of Connector code	Application code	Project status code	Wire Diameter code	Project code
RF device	CBA : Cable Assembly	Per 2 digits of Length, Width 1613 = Length = 16.8 Width = 13.7 0201 = Length = 2.05 Width = 1.40	2 digits for cable length 00= None Cable 10= Cable Length: 10cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 6: 6GHz	B: MP T:During Test X: Pilot run	0:None 1:0.81 2:0.132 3:0.13 4:Low Loss0.13 5:0.50 6:RG316 7:0.137 8:RG178 9: Low Loss0.137 A:RG174 B:1.5C-2V	01~99 series number
	CON : Connector								

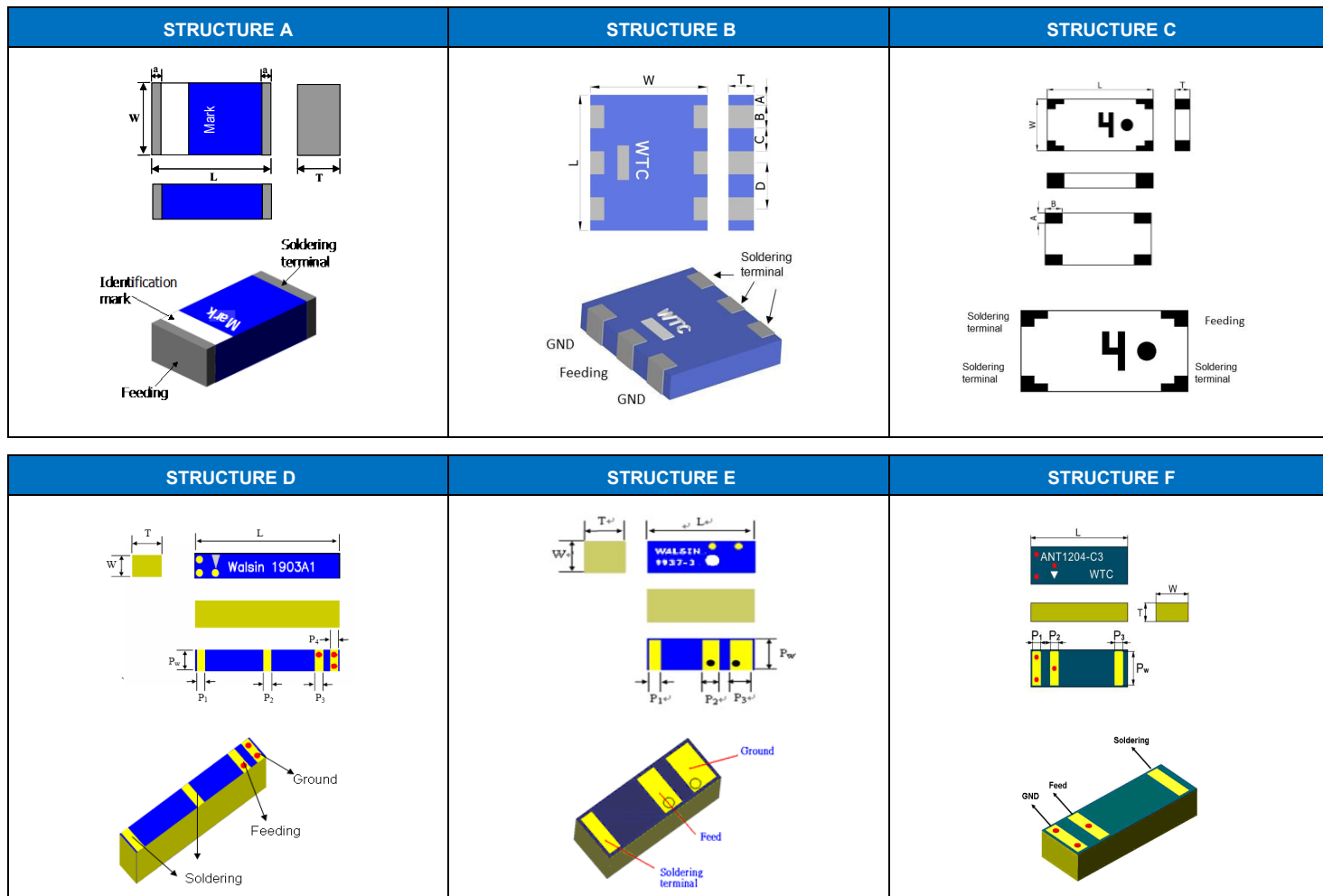
■ NFC and WPC Antenna

RF	NFC	0201	00	N	N	N	B	0	01
Type code	Product code	Dimension code	Cable Length code	Connector Brand code	Type of Connector code	Application code	Project status code	Wire Diameter code	Project code
RF device	NFC : Near Field Communication Antenna	Per 2 digits of Length, Width 5339 = Length = 53.7 Width = 39.7	2 digits for cable length 00= None Cable	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	F:NFC+Ferrite Sheet N:NFC(None Ferrite Sheet) P:WPC)	B: MP T:During Test X: Pilot run	0:None 1:0.81 2:0.132 3:0.13 4:Low Loss0.13 5:0.50 6:RG316 7:0.137 8:RG178 9: Low Loss0.137 A:RG174 B:1.5C-2V	01~99 series number
	WPC : Wireless Power Charging Antenna								

Remark: Central Frequency should be defined after customers' application approval

CHIP ANTENNA

■ STRUCTURE AND PIN ASSOCIATED



■ STRUCTURE AND DIMENSION

Unit: mm

Structure\Dimension	L	W	T	a	b	c	d
A	2.00±0.20	1.25±0.20	0.50±0.10	0.15±0.05	-	-	-
			0.8±0.10	0.8±0.10	-	-	-
	3.20±0.20	1.60±0.20	0.60±0.10	0.25±0.20	-	-	-
			1.10±0.10	0.50±0.20	-	-	-
			1.20±0.10	0.25±0.15	-	-	-
	5.20±0.20	2.00±0.20	1.15±0.10	0.40±0.25	-	-	-
			1.15±0.15	0.40±0.25	-	-	-
	8.00±0.20	1.05±0.20	0.80±0.10	0.30±0.20	-	-	-
B	9.10±0.20	3.00±0.20	2.00±0.10	0.20±0.20	-	-	-
	9.50±0.20	2.10±0.20	1.15±0.10	0.50±0.30	-	-	-
C	12.00±0.15	4.00±0.15	1.60±0.15	4.00±0.15	0.80±0.10	10.4±0.15	-
B	5.90±0.30	5.10±0.30	1.10±0.10	0.45±0.20	1.00±0.20	1.00±0.20	2.00±0.20
C	3.20±0.20	1.60±0.20	0.50±0.20	0.30±0.15	0.50±0.20	-	-

Structure\Dimension	L	W	T	PW	P1	P2	P3	P4	P5
D	9.90±0.15	3.70±0.15	3.80±0.20	3.48±0.10	1.4±0.10	1.9±0.10	2.4±0.15	-	-
E	19.0±0.15	3.00±0.15	3.80±0.20	3.00±0.10	1.0±0.10	1.0±0.10	1.0±0.10	1.0±0.10	-
F	12.0±0.15	4.00±0.15	2.00±0.20	3.60±0.10	1.0±0.10	1.0±0.10	1.0±0.10	-	-

■ ELECTRICAL SPECIFICATION

1575 MHz WORKING FREQUENCY

Part Number	Frequency Range (GHz)	Gain (dBi)	VSWR (max.)	Impedance (Ω)	Size (mm)	Structure
RFECA3216060EET	1.575	3	2.0	50	3.20x1.60x0.60	A
RFANT3216110EOT	1559 ~ 1563 1574.4 ~ 1576.4 1598.6 ~ 1606.6	1.7 / 1.6 / 1.5	3.0	50	3.20x1.60x1.10	A

Bluetooth/WiFi BAND WORKING FREQUENCY

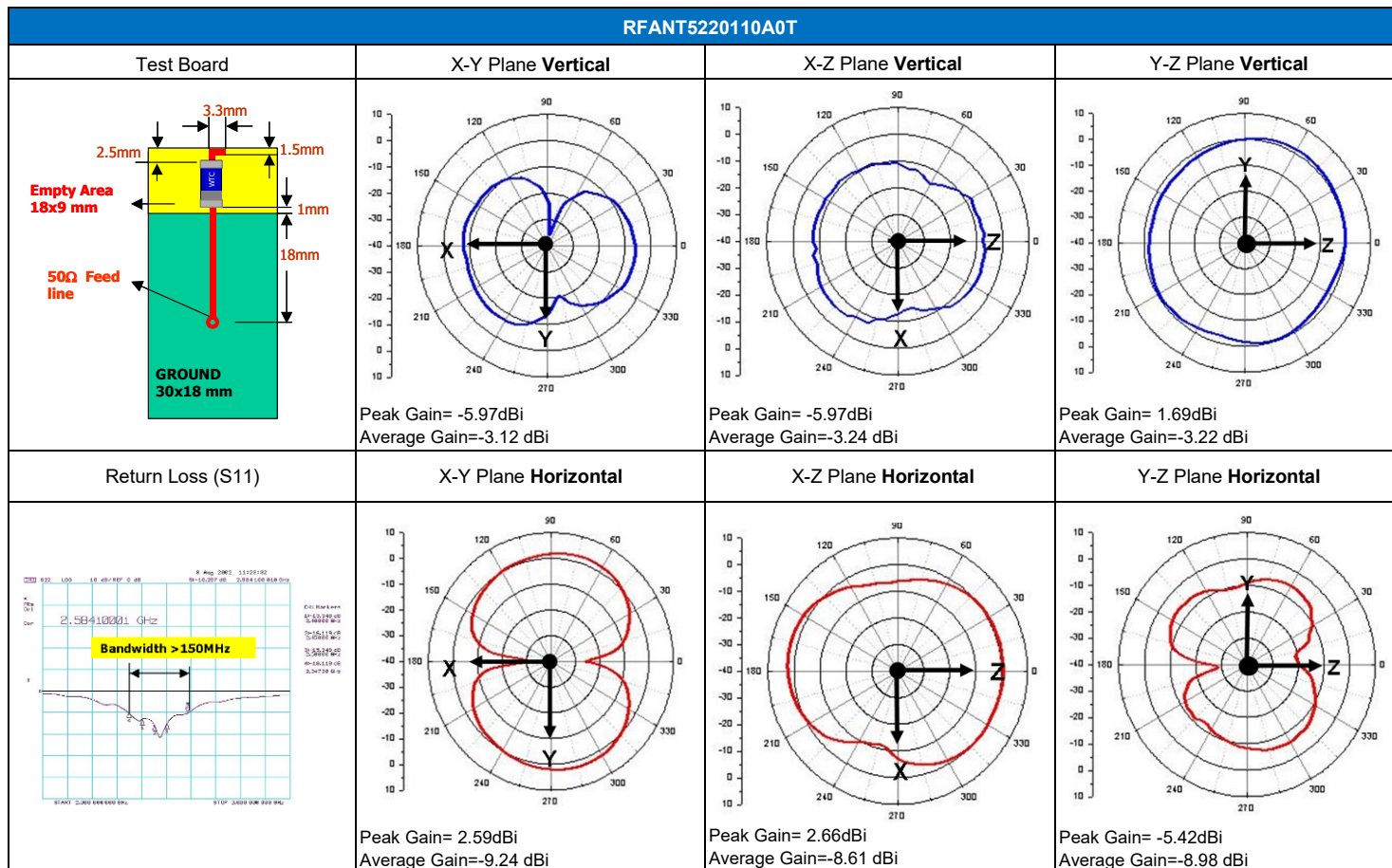
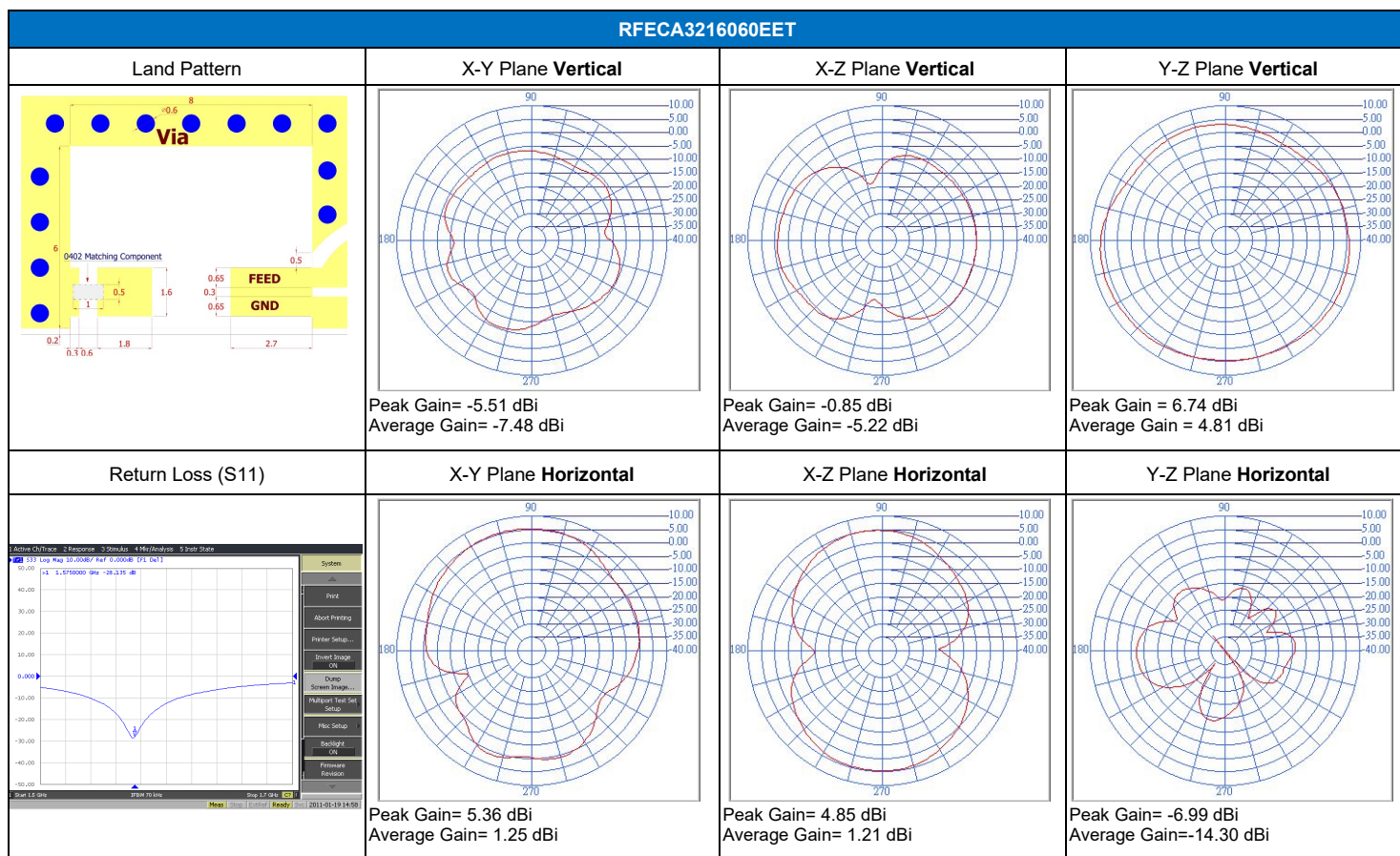
Part Number	Frequency Range (GHz)	Gain (dBi)	VSWR (max.)	Impedance (Ω)	Size (mm)	Structure
RFECA3216060L1T	2.4~2.5 5.25~5.85	0.6/2	2.1	50	3.20x1.60x0.60	A
RFANT6050110LOT	2.4~2.5 4.9~5.9	4	2.0	50	5.90x5.10x1.10	B
RFANT6050110L1T	2.4~2.5 4.9~5.9	4	2.0	50	5.90x5.10x1.10	B
RFANT2012090AOT	2.4~2.5	1.72	2.0	50	2.00x1.25x0.90	A
RFANT3216050A4T	2.4~2.5	1.50	2.0	50	3.20x1.60x0.50	C
RFANT3216120A1T	2.4~2.5	2	2.0	50	3.20x1.60x1.20	A
RFANT3216120A3T	2.4~2.5	2	2.0	50	3.20x1.60x1.20	A
RFANT3216120A5T	2.4~2.5	2	2.0	50	3.20x1.60x1.20	A
RFANT5220110AOT	2.4~2.5	2	2.0	50	5.20x2.00x1.10	A
RFANT5220110A2T	2.4~2.5	2	2.0	50	5.20x2.00x1.10	A
RFANT8010080A3T	2.4~2.5	2	2.0	50	8.00x1.00x0.80	A
RFANT9520120AOT	2.4~2.5	2	2.0	50	9.50x2.00x1.20	A
RFECA3216060A1T	2.4~2.5	2	2.1	50	3.20x1.60x0.60	A
RFECA3216060K1T	4.9~5.85	2.8	2.0	50	3.20x1.60x0.60	A
RFANT9030200A1T	2.4~2.4835	2	2.1	50	9.00x 3.00x2.00	A
RGFRA1903041A1T	2.4~2.5	2	2.0	50	19.0x3.00x3.80	E
RGFRA1903041A5T	2.4~2.5	2	2.0	50	19.0x3.00x3.80	E
RGFRA9937380A3T	2.4~2.55	2	2.0	50	9.90x3.70x3.80	D
RGFRA1204021A1T	2.4~2.5	2	2.0	50	12.0x4.00x2.00	F
RFANT2012090AOT	2.4~2.5	2	2.0	50	2.00x1.25x0.90	A
RFECA2012050A3T	2.4~2.5	0.29	2.6	50	2.00x1.20x0.5	A

UHF BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Gain (dBi)	VSWR (max.)	Impedance (Ω)	Size (mm)	Structure
RGFRA1204011DCT	900~930	1	2.0	50	12.00x4.00x1.60	A
RGFRA1204011DET	855~885	1	2.0	50	12.00x4.00x1.60	A

- For more information, please contact with local sales representative
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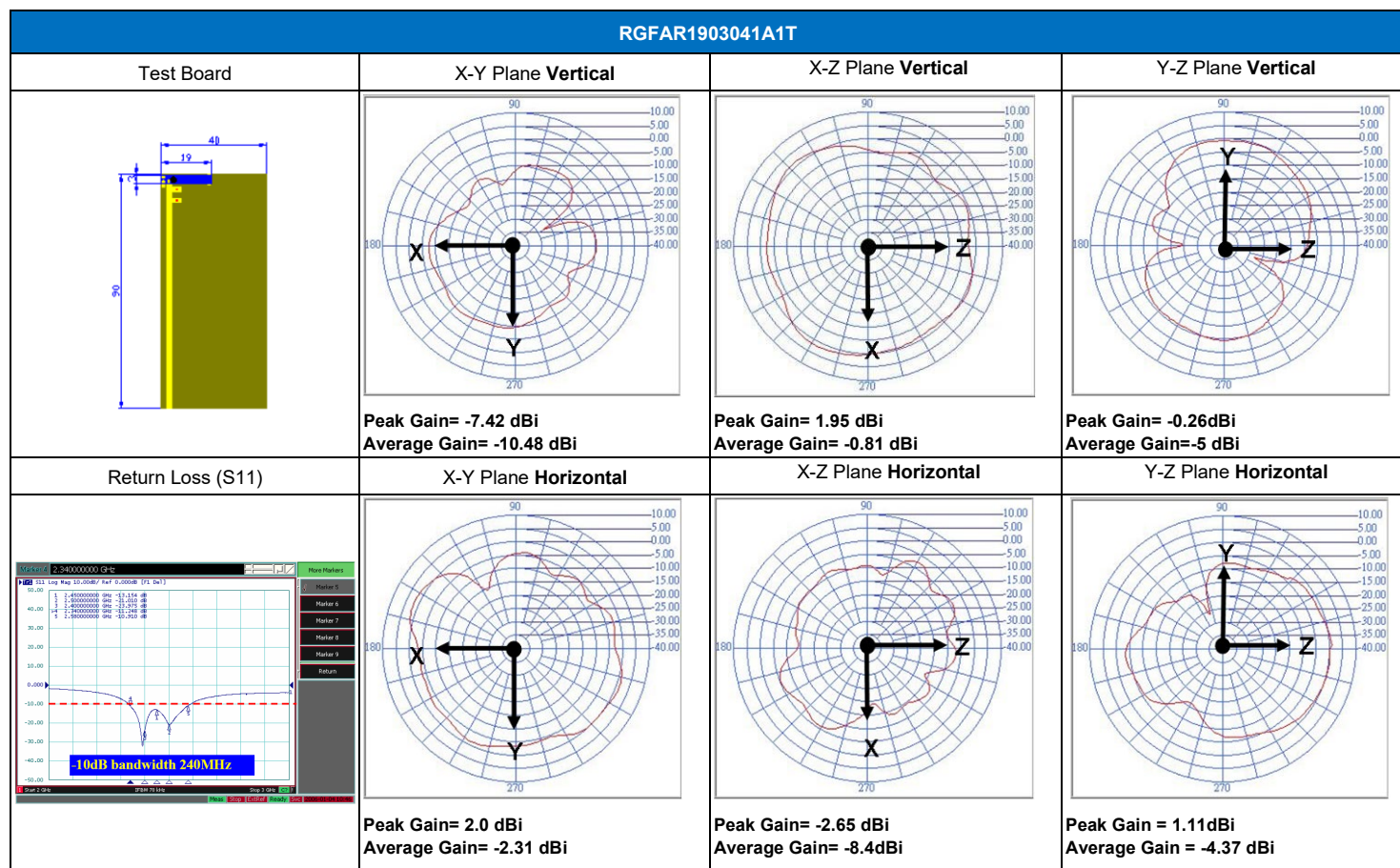
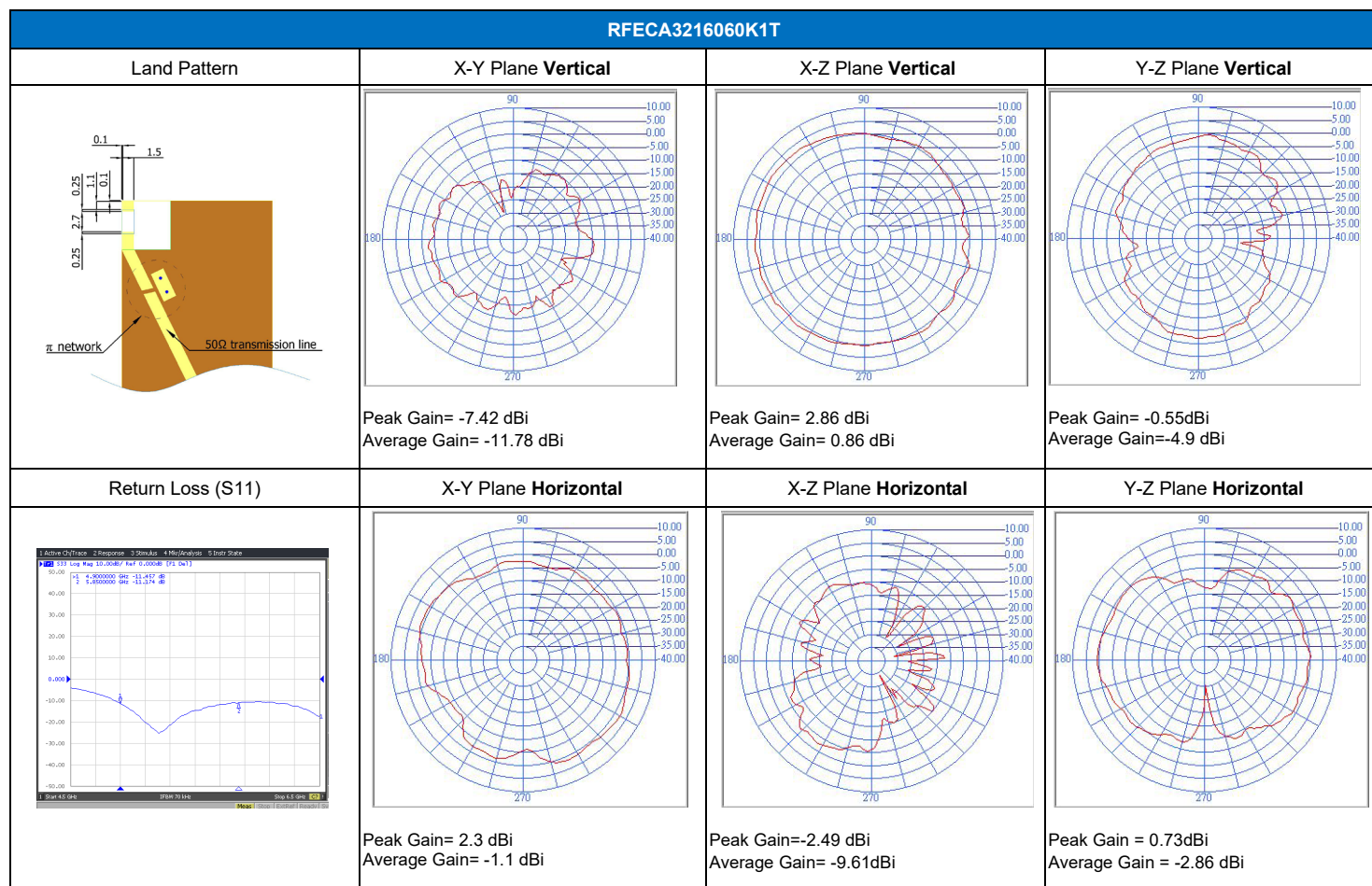
■ TYPICAL ELECTRICAL CHARACTERISTICS



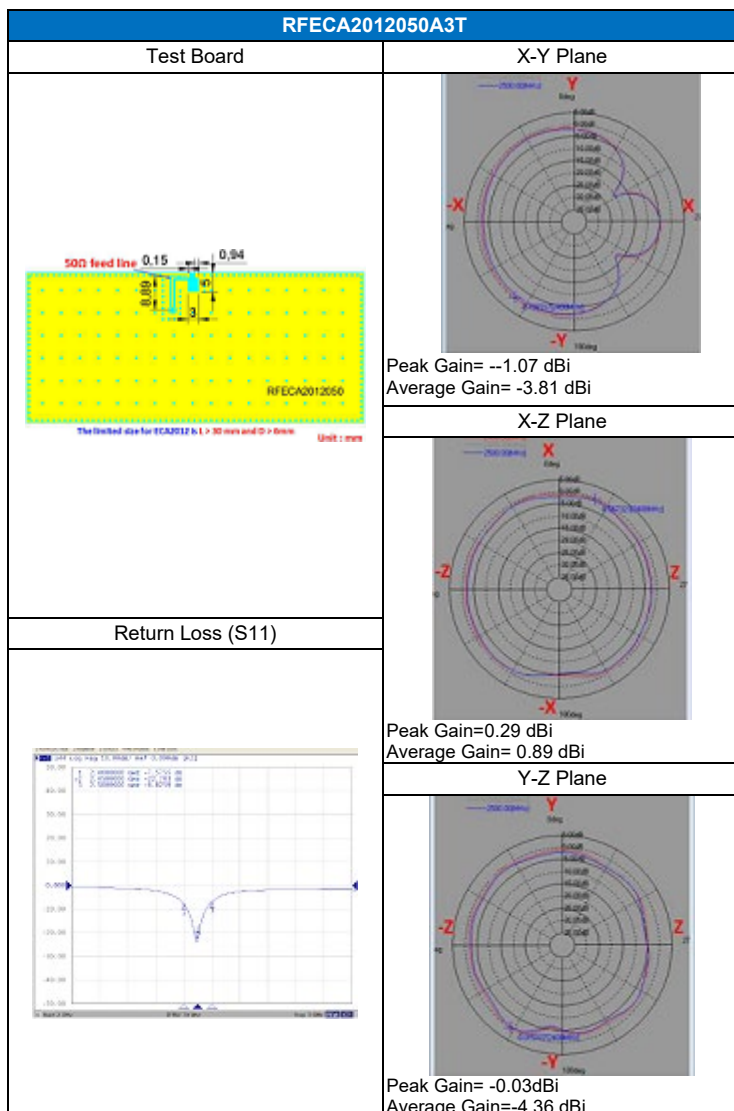
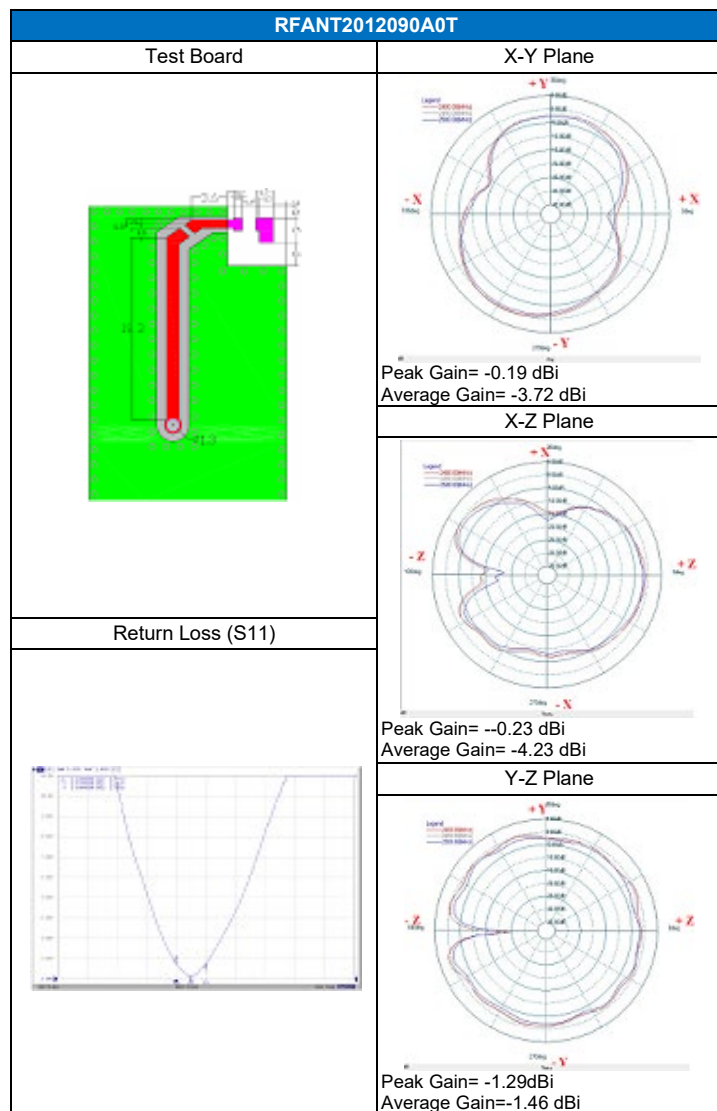
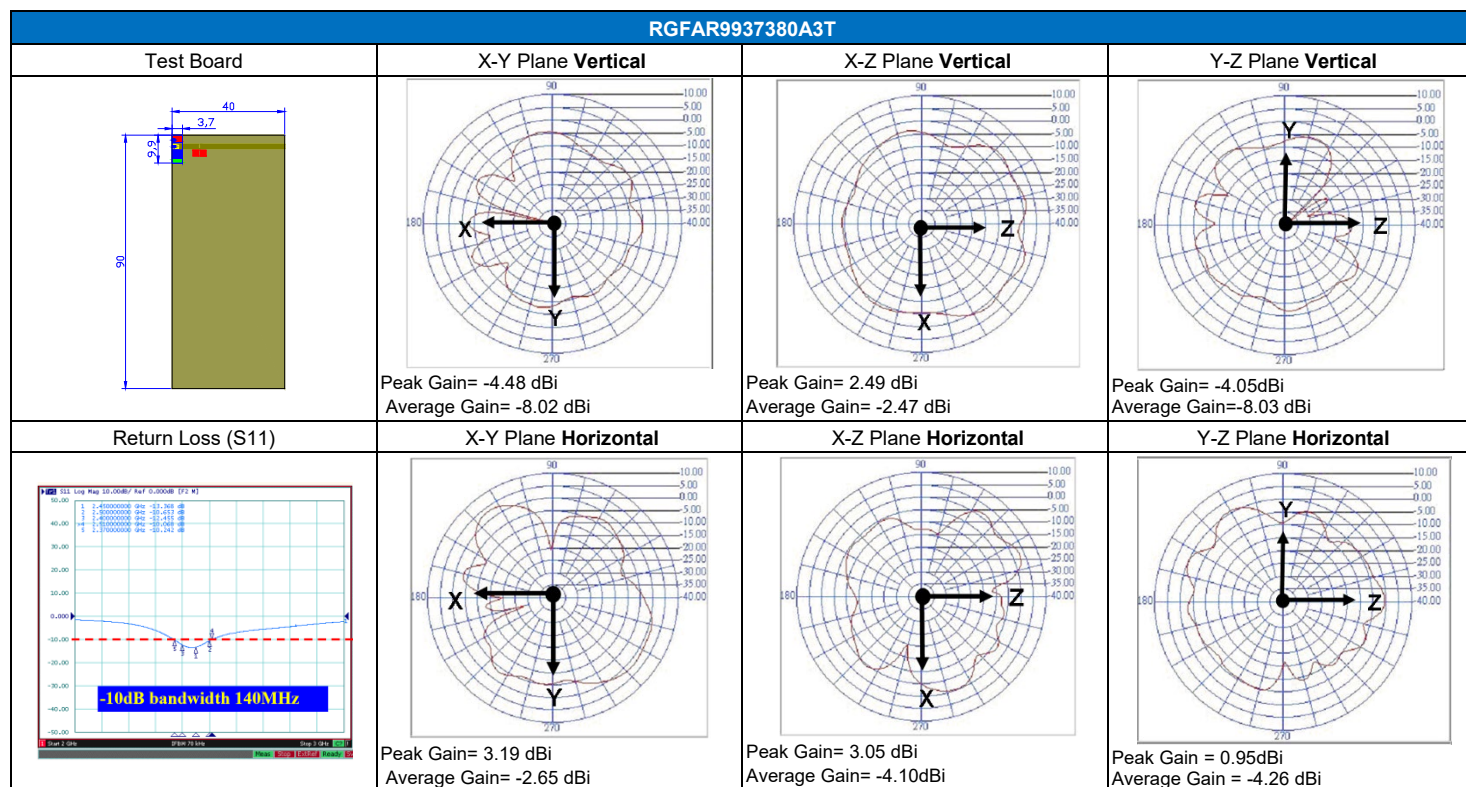
TYPICAL ELECTRICAL CHARACTERISTICS

RFANT8010080A3T			
Test Board 	X-Y Plane Vertical Peak Gain= 0.76 dBi Average Gain= -5.81dBi	X-Z Plane Vertical Peak Gain= -3.76 dBi Average Gain= -8.72dBi	Y-Z Plane Vertical Peak Gain = 3.03 dBi Average Gain = 0.71 dBi
Return Loss (S11) 	X-Y Plane Horizontal Peak Gain= 1.37 dBi Average Gain= -2.67 dBi	X-Z Plane Horizontal Peak Gain= -0.25 dBi Average Gain= -4.24 dBi	Y-Z Plane Horizontal Peak Gain= -1.37 dBi Average Gain= -8.6 dBi
RFECA3216060A1T			
Test Board 	X-Y Plane Vertical Peak Gain = 3.37 dBi Average Gain = -0.65 dBi	X-Z Plane Vertical Peak Gain= 0.83 dBi Average Gain= -1.35 dBi	Y-Z Plane Vertical Peak Gain= -9.59 dBi Average Gain= -15.40 dBi
Return Loss (S11) 	X-Y Plane Horizontal Peak Gain= -4.62 dBi Average Gain= -10.42 dBi	X-Z Plane Horizontal Peak Gain= 0.51 dBi Average Gain= -4.07 dBi	Y-Z Plane Horizontal Peak Gain= 1.39 dBi Average Gain= -2.07 dBi

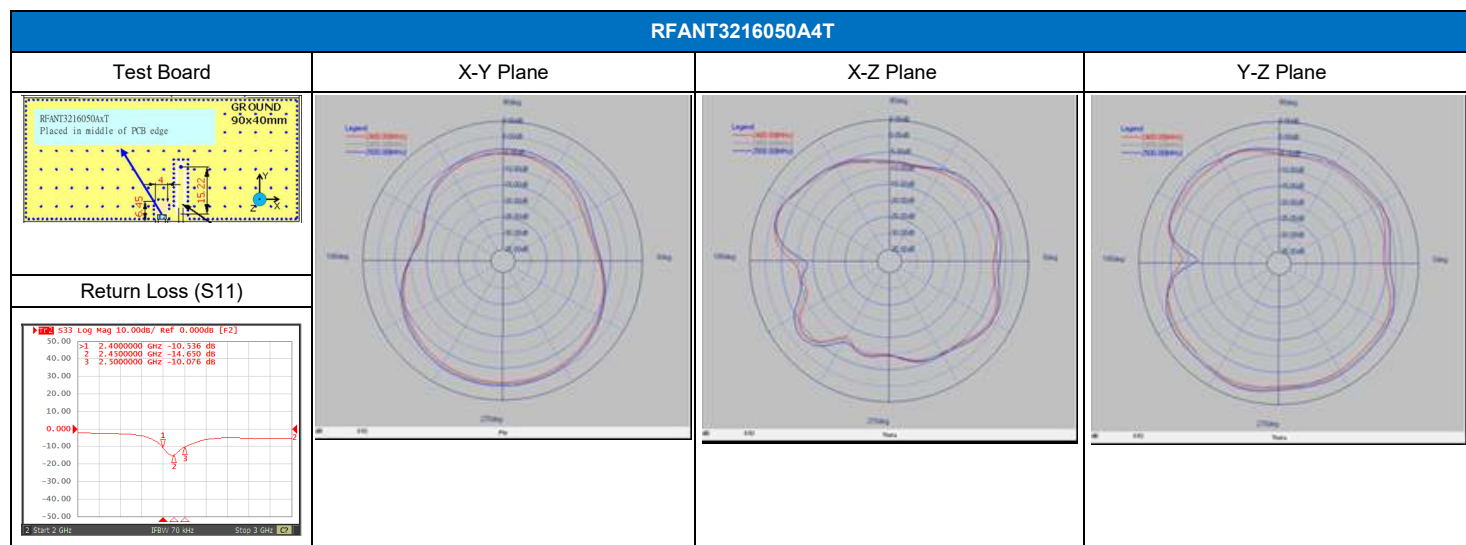
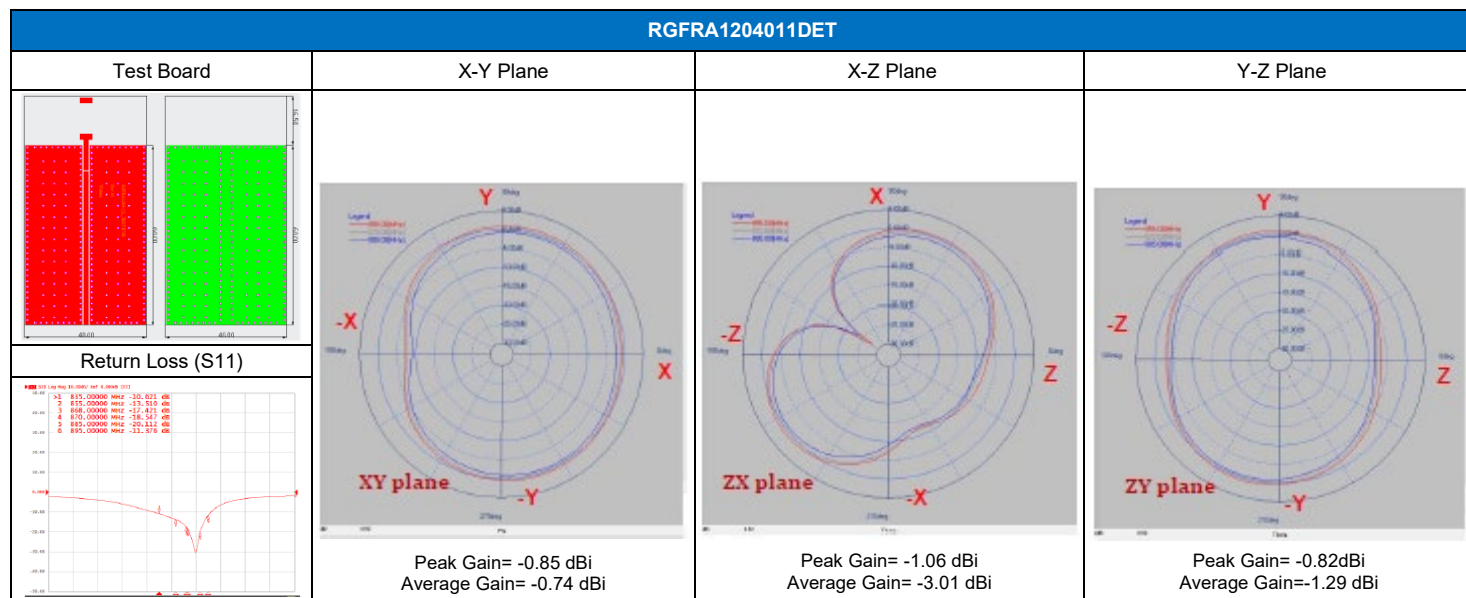
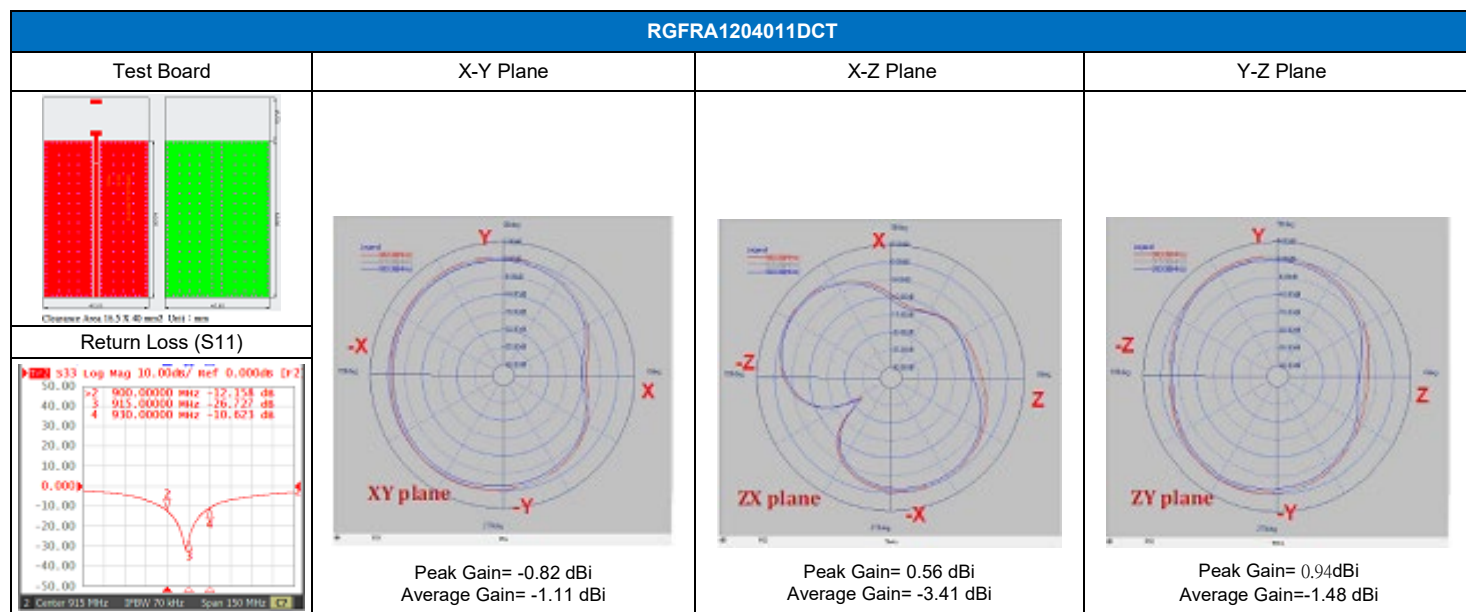
TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



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HIGH FREQUENCY MULTILAYER BAND PASS FILTER

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A	STRUCTURE B	STRUCTURE C	STRUCTURE D	STRUCTURE E	STRUCTURE F

STRUCTURE G	STRUCTURE H	STRUCTURE I	STRUCTURE J	STRUCTURE K	STRUCTURE L

■ **STRUCTURE AND DIMENSION**

Unit: mm

Structure/ Dimension	L	W	T	A	B	C	D	E	F	G	H	I
A	2.50±0.20	2.00±0.20	0.70±0.10	0.20±0.20	0.55±0.20	0.50±0.20	0.25±0.20	0.20±0.20	-	-	-	-
			0.90±0.10	0.20±0.20	0.55±0.20	0.50±0.20	0.20±0.20	0.20±0.20	-	-	-	-
			1.00±0.10	0.20±0.20	0.55±0.20	0.50±0.20	0.25±0.20	0.20±0.20	-	-	-	-
			1.00±0.10	0.20±0.20	0.50±0.20	0.60±0.20	0.25±0.20	0.20±0.20	-	-	-	-
			1.05±0.10	0.25±0.20	0.50±0.20	0.50±0.20	0.25±0.20	0.25±0.20	-	-	-	-
			1.20±0.10	0.25±0.20	0.50±0.20	0.50±0.20	0.25±0.20	0.25±0.20	-	-	-	-
	3.20±0.20	2.50±0.10	1.50±0.10	0.20±0.20	0.75±0.20	0.60±0.20	0.20±0.15	0.40±0.20	-	-	-	-
B	1.00±0.10	0.50±0.10	0.40±0.10	0.35±0.10	0.30±0.10	0.15±0.10	0.15±0.10	0.30±0.10	-	-	-	-
	1.60±0.15	0.80±0.15	0.50±0.10	0.45±0.15	0.70±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.25±0.15	-	-	-
			0.60±0.10	0.45±0.15	0.70±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.25±0.15	-	-	-
			0.70±0.10	0.40±0.15	0.80±0.15	0.20±0.10	0.20±0.10	0.30±0.15	0.25±0.15	-	-	-
			0.70±0.10	0.45±0.15	0.70±0.15	0.20±0.10	0.20±0.10	0.30±0.15	0.25±0.15	-	-	-
	2.00±.15	1.20±0.15	0.50±0.10	0.40±0.15	0.80±0.15	0.20±0.10	0.20±0.10	0.30±0.15	0.45±0.15	-	-	-
			0.90±0.10	0.20±0.15	1.60±0.15	0.20±0.15	0.20±0.15	0.40±0.15	0.40±0.15	-	-	-
				0.20±0.15	1.60±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.45±0.15	-	-	-
				0.45±0.15	1.10±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.45±0.15	-	-	-
				0.50±0.15	1.00±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.45±0.15	-	-	-
		1.25±0.15	0.60±0.10	0.50±0.15	1.00±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
			0.80±0.10	0.50±0.15	1.00±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
			0.85±0.10	0.20±0.15	1.60±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.475±0.15	-	-	-
			0.90±0.10	0.50±0.15	1.00±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
				0.20±0.15	1.60±0.15	0.20±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
			0.95±0.10	0.35±0.15	1.30±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.475±0.15	-	-	-
				0.20±0.15	1.60±0.15	0.20±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
				0.35±0.15	1.30±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
				0.50±0.15	1.00±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
C	2.00±.15	1.20±0.20	0.55±0.10	0.40±0.20	0.40±0.20	0.40±0.20	0.20±0.10	-	-	-	-	-
			0.60±0.10	0.40±0.20	0.40±0.20	0.40±0.20	0.20±0.10	-	-	-	-	-
			0.80±0.10	0.40±0.20	0.40±0.20	0.40±0.20	0.20±0.10	-	-	-	-	-
D	1.60±0.15	0.80±0.15	0.35max.	0.55±0.10	0.25±0.10	0.23±0.10	0.40±0.10	0.12±0.10	0.125±0.10	-	-	-
			0.60±0.10	0.55±0.10	0.25±0.10	0.23±0.10	0.40±0.10	0.12±0.10	0.125±0.10	-	-	-
	2.00±.15	1.25±0.10	0.45±0.10	0.95±0.10	0.275±0.20	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10	-	-	-
			0.70 max	0.95±0.10	0.275±0.10	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10	-	-	-
			0.80±0.10	0.95±0.10	0.275±0.10	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10	-	-	-
E	1.10±0.10	0.90±0.10	0.60±0.10	0.25±0.10	0.18±0.10	0.205±0.10	0.25±0.10	-	-	-	-	-
	1.40±0.15	1.10±0.10	0.60±0.10	0.325±0.10	0.25±0.10	0.25±0.10	0.25±0.10	-	-	-	-	-
	1.40±0.15	1.10±0.15	0.70±0.10	0.325±0.10	0.25±0.10	0.25±0.10	0.25±0.10	-	-	-	-	-
	2.00±0.20	1.25±0.20	1.00 max.	0.325±0.10	0.25±0.10	0.25±0.10	0.25±0.10	-	-	-	-	-
F	1.60±0.15	0.80±0.15	0.40±0.10	0.55±0.15	0.50±0.15	0.35±0.15	0.50±0.15	0.20±0.15	-	-	-	-
			0.60±0.10	0.55±0.15	0.50±0.15	0.35±0.15	0.50±0.15	0.20±0.15	-	-	-	-
G	1.60±0.10	0.80±0.10	0.70 max.	0.55±0.10	0.25±0.10	0.23±0.10	0.40±0.10	0.12±0.10	0.195±0.10	0.21±0.10	0.125±0.10	-
	2.00±0.15	1.25±0.10	0.80±0.10	0.95±0.10	0.40±0.10	0.30±0.10	0.30±0.10	0.15±0.10	0.30±0.10	0.35±0.10	0.15±0.10	-
			0.90±0.10	0.95±0.10	0.40±0.10	0.30±0.10	0.30±0.10	0.15±0.10	0.30±0.10	0.35±0.10	0.15±0.10	-
	2.50±0.20	2.00±0.20	0.90±0.10	1.70±0.20	0.60±0.20	0.30±0.20	0.40±0.20	0.15±0.10	0.60±0.10	0.50±0.10	0.15±0.10	-
H	1.60±0.15	0.80±0.10	0.60 max.	0.25±0.10	0.23±0.05	0.40±0.10	0.30±0.10	0.55±0.10	0.60±0.10	-	-	-
			0.65 max.	0.25±0.10	0.23±0.05	0.40±0.10	0.30±0.10	0.55±0.10	0.60±0.10	-	-	-
I	2.00±0.15	1.25±0.10	1.00 max.	1.80±0.10	0.35±0.10	0.25±0.10	0.25±0.10	0.275±0.10	0.35±0.10	0.25±0.10	0.25±0.10	0.275±0.10
J	2.00±0.15	1.25±0.10	1.05max.	0.20±0.10	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.10	0.475±0.10	0.30±0.10	-
K	2.00±0.15	1.25±0.15	1.05±0.15	0.475±0.15	0.30±0.15	0.20±0.15	0.50±0.15	0.60±0.15	0.95±0.15	-	-	-
	3.20±0.20	2.50±0.20	1.80±0.20	0.95±0.20	0.60±0.20	0.30±0.15	0.70±0.15	1.20±0.15	2.00±0.15	-	-	-
L	1.00±0.05	0.05±0.05	0.32 max.	0.18±0.05	0.18±0.05	0.05±0.05	0.125±0.05	0.15±0.05	0.05±0.05	-	-	-

■ ELECTRICAL SPECIFICATION

2.4GHz WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RBBPF1005040A1T	2.4~2.5	2.5	25(824~960MHz) 20(1710~1910MHz) 20(4800~5000MHz) 15(7200~7500MHz)	2.0	50	1.00x0.50x0.40	B
RFBPF1005040A3T	2.4~2.5	1.5max.(25°C) 1.7max.(-40~+85°C)	13(824~915MHz) 5(1545~1605MHz) 34(4800~5000MHz) 27(7200~7500MHz)	2.1	50	1.00x0.50x0.40	B
RFBPF1109060A0T	2.4~2.5	1.8	35(824~960MHz) 38(1545~1605MHz) 20(1710~1990MHz) 8(2110~2170MHz) 35(3600MHz) 35(4800~5000MHz) 35(7200~7500MHz)	2.0	50	1.10x 0.90x0.60	E
RFBPF1109060A28Q1C	2.4~2.5	1.0max.(25°C) 1.3max.(-40~+85°C)	20(50~960MHz) 30(1560~1606MHz) 15(1710~1990MHz) 10(3600MHz) 35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.10x 0.90x0.60	E
RFBPF1109060A4T	2.4~2.5	2.0(2400~2478MHz) 2.4(2478~2483.5MHz)	20(50~960MHz) 22(1545~1605MHz) 15(1710~1990MHz) 5(3000MHz) 30(4802~4966MHz) 25(5150~5850MHz) 20(7203~7449MHz)	2.0	50	1.10x 0.90x0.60	E
RFBPF1411060A1T	2.4~2.5	1.8max.(25°C) 2.1max.(-40~+85°C)	40(824~960MHz) 40(1545~1605MHz) 20(1710~1990MHz) 8(2110~2170MHz) 35(3600MHz) 35(4800~5000MHz) 35(7200~7500MHz)	2.0	50	1.40x1.10x0.60	E
RFBPF1411060A2T	2.4~2.5	1.5	30(500~960MHz) 25(1500~1650MHz) 19(3200~3300MHz) 40(4800~5000MHz) 30(7200~7500MHz)	2.0	50	1.40x1.10x0.60	E
RBBPF1411060A3T	2.4~2.5	1.1	20(50~960MHz) 10(1710~1990MHz) 9(3600MHz) 22(4800~7200MHz)	2.0	50	1.40x1.10x0.60	E
RBBPF1411060A8T	2.4~2.5	1.0max.(25°C) 1.2max.(-40~+85°C)	15(50~960MHz) 10(1710~1990MHz) 15(3600MHz) 25(4800~7200MHz)	2.0	50	1.40x1.10x0.60	E
RFBPF1608060AA7M1U	2.4~2.5	0.95max.(25°C) 1.25max.(-40~+85°C)	20(500~960MHz) 23(3200MHz) 30(4800~5000MHz) 32(7200~7500MHz)	2.0	50	1.60x0.80x0.60	H
RFBPF1608060ADT	2.4~2.5	1.8max.(25°C) 2.1max.(-40~+85°C)	25(800~1000MHz) 22.5(1200~1300MHz) 5.5(2000MHz) 10.5(3000MHz) 23.5(3600~3800MHz) 35(4800~5000MHz) 35(7200~7500MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1608060AET	2.4~2.5	1.7max.(25°C) 2.0max.(-40~+85°C)	25(880MHz) 20(3200MHz) 35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.60x0.80x0.60	F
RFBPF1608060A1T	2.4~2.5	2.8	25(695~800MHz) 20(1910MHz) 35(3200MHz) 20(4800~5000MHz) 20(7200~7500MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1608060A7T	2.4~2.5	3.0	25(695~800MHz) 20(1910MHz) 35(3200MHz) 20(4800~5000MHz) 20(7200~7500MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1606A10T	2.4~2.5	0.95max.(25°C) 1.1max.(-40~+85°C)	20(500~960MHz) 20(3600MHz) 30(4800~5000MHz) 40(7200~7500MHz)	2.0	50	1.60x0.80x0.60	H
RFBPF1606A11T	2.4~2.5	1.55max.(25°C) 1.75max.(-40~+85°C)	35(800~1000MHz) 20(3200MHz) 35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.60x0.80x0.60	F

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2.4GHz WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1606A14T	2.4~2.5	1.5max.(25°C) 1.7max.(-40~+85°C)	25(880~915MHz) 25(1710~1785 MHz) 25(1850~1910 MHz) 20(4800~5000 MHz) 15(7200~7500 MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1606A15T	2.4~2.5	2.5max.(25°C) 2.8max.(-40~+85°C)	30(960MHz) 25(1910 MHz) 20(1990 MHz) 30(4800 MHz) 25(7200 MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1606A17T	2.4~2.5	1.8max.(25°C) 2.1max.(-40~+85°C)	27(800~900MHz) 25(4800~5000MHz) 30(7200~7500MHz)	2.0	50	1.60x0.80x0.70	B
RFBPF1606A19T	2.4~2.5	2.0max.(25°C) 2.2max.(-40~+85°C)	30(960MHz) 25(1910 MHz) 20(1990 MHz) 25(4800 MHz) 15(7200 MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1608060AM6T25	2.4~2.5	1.55max.(25°C) 1.75max.(-40~+85°C)	35(800~1000MHz) 20(3200MHz) 35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.60x0.80x0.60	F
RFBPF1608060AC8T37	2.4~2.5	1.80max.(25°C) 2.1max.(-40~+85°C)	27(804~828MHz) 21(1608~1656MHz) 23(3216~3312MHz) 38(4020~4140MHz) 42(4824~4968MHz) 34(5628~5796MHz) 34(6432~6624MHz) 34(7200~7500MHz) 14(9600~10000MHz) 10(12000~12500MHz) 12(14400~14900MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF2012090AS1T35	2.4~2.5	0.9max.(25°C) 1.1max.(-40~+85°C)	28(824~960MHz) 30(1570~1580MHz) 15(1710~1910MHz) 9.5(1910~1990MHz) 25(4800~5000MHz) 25(7200~7500MHz)	2.0	50	2.00x1.25x0.90	G
RFBPF2012060AAT	2.4~2.5	1.5max.(25°C) 1.8max.(-40~+85°C)	30(880~960MHz) 25(1710~1910MHz) 25(4800~5000MHz) 30(7200~7500MHz)	2.0	50	2.00x1.20x0.60	C
RFBPF2012040ABT	2.4~2.5	2.5	30(824~849MHz) 30(880~915MHz) 30(1545~1605MHz) 30(1565~1585MHz) 35(1710~1785MHz) 40(1850~1910MHz) 32(1920~1980MHz) 7(3168~4752MHz) 11(3300~3800MHz) 35(4800~4967MHz) 26(5150~6000MHz) 23(7200~7450MHz)	2.0	50	2.00x1.20x0.40	D
RFBPF2012050ACT	2.4~2.5	2.5	35(824~960MHz) 38(1710~1910MHz) 25(4880~5000MHz) 20(7200~7500MHz)	2.0	50	2.00x1.20x0.55	C
RFBPF2012080ADT	2.4~2.5	1.5max.(25°C) 1.7max.(-40~+85°C)	30(860~960MHz) 30(1545~1605MHz) 30(1710~1990MHz) 30(2170MHz) 30(4800~5000MHz)	2.0	50	2.00x1.25x0.80	D
RFBPF2012040AHT	2.4~2.5	2.5	25(746~764MHz) 30(824~849MHz) 26(869~960MHz) 28(1570~1580MHz) 28(1710~1785MHz) 30(1850~1910MHz) 30(1930~1990MHz) 30(2110~2170MHz) 15(3300~3800MHz) 35(4800~5000MHz) 20(7200~7450.5MHz)	2.0	50	2.00x1.25x0.45	D

2.4GHz WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RBBPF2012050AHT	2.4~2.5	2.5max.(typ.2.2)	25(746~764MHz) 30(824~849MHz) 26(869~960MHz) 28(1570~1580MHz) 28(1710~1785MHz) 30(1850~1910MHz) 30(1930~1990MHz) 25(2110~2170MHz) 15(3300~3800MHz) 35(4800~5000MHz)	2.0	50	2.00x1.25x0.45	D
RFBPF2012090AMT	2.4~2.5	2.6	40(880~960MHz) 38(1710~1990MHz) 16(2170MHz) 30(4800~5000MHz) 30(7200~7500MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2012100ANT	2.4~2.5	2.3max.(25°C) 2.6max.(-40~+85°C)	40(699~960MHz) 40(1428~1448MHz) 40(1476~1607MHz) 40(1710~1785MHz) 33(1805~1880MHz) 30(1880~1915MHz) 30(1920~1990MHz) 22(2110~2170MHz) 25(4800~5000MHz) 35(7200~7500MHz)	2.0	50	2.00x1.20x1.00	I
RFBPF2012090AQT	2.4~2.5	1.2	20(1600MHz) 25(3200MHz) 20(4800~5000MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2012100AVT	2.4~2.5	1.5max.(25°C) 1.7max.(-40~+85°C)	40(699~960MHz) 40(1428~1448MHz) 40(1476~1607MHz) 40(1710~1785MHz) 33(1805~1880MHz) 30(1880~1915MHz) 30(1920~1990MHz) 25(4800~5000MHz) 30(7200~7500MHz)	2.0	50	2.00x1.20x1.00	I
RFBPF2012100A6T	2.4~2.5	1.0max.(25°C) 1.2max.(-40~+85°C)	21(902~928MHz) 26(4800~5000MHz) 34(7200~7500MHz) 29(9600~10000MHz)	2.0	50	2.00x1.20x1.00	L
RFBPF2012080A7T	2.4~2.5	2.8 (typ.2.5)	40(DC~1600MHz) 35(1710MHz) 25(1900MHz) 12(2100MHz) 8(2170MHz) 30(3100MHz) 40(4800~5000MHz) 20(7200~7500MHz)	2.0	50	2.00x1.20x0.80	B
RFBPF2012060A9T	2.4~2.5	2.8	30(960MHz) 30(1600MHz) 20(1990MHz) 35(3200MHz) 40(4800MHz) 25(7200MHz)	2.0	50	2.00x1.20x0.60	B
RBBPF2010A108Q1C	2.4~2.5	1.3max.(25°C) 1.5max.(-40~+85°C)	38(50~960MHz) 17(1710~1910MHz) 5(3200MHz) 30(4800~5000MHz) 25(7200~7500MHz)	2.0	50	2.00x1.20x0.90	E
RFBPF2009A12T	2.4~2.5	1.0max.(25°C) 1.2max.(-40~+85°C)	28(824~960MHz) 28(1570~1580MHz) 23(1710~1910MHz) 17(1920~1990MHz) 4(2100~2170MHz) 25(4800~5000MHz) 25(7200~7500MHz)	2.0	50	2.00x1.25x0.90	G
RBBPF2010A16T	2.4~2.5	1.3max.(25°C) 1.5max.(-40~+85°C)	38(50~960MHz) 17(1710~1990MHz) 20(3200MHz) 30(4800~5000MHz) 25(7200~7500MHz)	2.0	50	2.00x1.25x1.00	E

2.4GHz WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1606A18T	2300~2390	2.0max.(25°C) 2.3max.(-40~+85°C)	29(880~915MHz) 29(1710~1785MHz) 21(1850~1910MHz) 15(1920~1980MHz) 18(4600~4780MHz) 23(6900~7170MHz)	2.0	50	1.60x0.80x0.70	B
RFBPF2009A25T	2.4~2.5	1.7max.(25°C) 1.9max.(-40~+85°C)	30(900MHz) 20(1850MHz) 30(4800MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2009A26T	2.4~2.5	1.4max.(25°C) 1.6max.(-40~+85°C)	30(824~960MHz) 30(1710~1910MHz) 20(1920~1990MHz) 6(2110~2170MHz) 20(4800~5000MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2010A368Q1C	2.4~2.5	1.1max.(25°C) 1.3max.(-40~+85°C)	30(500~960MHz) 26(1500~1650MHz) 22(3200~3300MHz) 45(4800~5000MHz) 26(7200~7500MHz)	2.0	50	2.00x1.20x0.90	E
RFBPF2008A38T	2.4~2.5	1.8max.(25°C) 2.0max.(-40~+85°C)	30(860~960MHz) 30(1545~1605MHz) 35(1710~1990MHz) 30(2170MHz) 30(4800~5000MHz)	2.0	50	2.00x1.20x0.80	D
RFBPF2008A39T	2.4~2.5	1.8max.(25°C) 2.0max.(-40~+85°C)	35(824~960MHz) 28(1540~1605MHz) 30(1710~1990MHz) 30(2170MHz) 6(3200MHz) 30(4800~4967MHz) 20(5150~6000MHz) 18(7200~7450MHz)	2.0	50	2.00x1.25x0.80	D
RFBPF2008A40T	2.4~2.5	1.8max.(25°C) 2.0max.(-40~+85°C)	30(824~915MHz) 30(1545~1605MHz) 35(1710~1990MHz) 30(2170MHz) 30(4800~4967MHz) 25(5150~6000MHz) 20(7200~7450.5MHz)	2.0	50	2.00x1.25x0.80	D
RFBPF2004A51T	2.4~2.5	2.5max.(25°C) 2.8max.(-40~+85°C)	30(824~915MHz) 32(1920~1980MHz) 16(2110~2170MHz) 35(1800~4967MHz)	2.0	50	2.00x1.25x0.80	D
RFBPF2009A55T	2.4~2.5	1.4max.(25°C) 1.6max.(-40~+85°C)	30(824~915MHz) 30(1710~1910MHz)	2.0	50	2.00x1.25x0.95	B
RFBPF2520070AMT	2.4~2.5	2.0max.(25°C) 2.2max.(-40~+85°C)	45(824~960MHz) 45(1570~1580MHz) 45(1710~1785MHz) 40(1805~1850MHz) 35(1850~1910MHz) 35(1920~1990MHz) 25(2110~2170MHz) 5(2750~3000MHz) 15(3000~4800MHz) 30(4800~5000MHz) 30(5150~5850MHz) 20(7200~7500MHz)	2.0	50	2.50x2.00x0.70	A
RFBPF2520080AUT	2.4~2.5	2.2	30(900MHz) 30(1850MHz) 33(2170MHz) 35(4800MHz) 25(7200MHz)	2.0	50	2.50x2.00x0.70	A
RFBPF2520120A1T	2.4~2.5	1.7	30(900MHz) 30(1850MHz) 20(2100MHz) 40(4800MHz) 25(7200MHz)	2.0	50	2.50x2.00x1.20	A

5GHz WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1005040K0T	4.9~5.95	1.2max.(25°C) 1.5max.(-40~+85°C)	20(2400~2500MHz) 20(9800~11900MHz) 18(14700~17850MHz)	2.0	50	1.00x0.50x0.40	B
RFBPF1606KM9T16	5.15~7.125	0.9max.(25°C) 1.1max.(-40~+85°C)	40(2400~2500MHz) 30(10300~14250MHz) 30(15450~21375MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1608060K2T	4.9~5.84	1.5max.(25°C) 1.7max.(-40~+85°C)	33(100~2170MHz) 29(2170~2500MHz) 32(9800~12000MHz)	2.0	50	1.60x0.80x0.70	B
RFBPF1608060K68Q1C	4.9~5.9	1.3max.(25°C) 1.5max.(-40~+85°C)	38(30~2700MHz) 16(3453~3547MHz) 33(3667~3883MHz) 9(6900~7093MHz) 32(7333~7750MHz) 40(10600~11650MHz) 18(15540~17760MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1608060K78Q1C	5.15~5.95	0.8max.(25°C) 1.0max.(-40~+85°C)	40(30~2700MHz) 45(3400~3800MHz) 20(7250~7800MHz) 20(10300~11700MHz)	1.5	50	1.60x0.80x0.60	D
RFBPF1608060K88Q1C	5.15~5.95	0.7max.(25°C) 0.85max.(-40~+85°C)	35(30~2700MHz) 30(3400~3800MHz) 12(7250~7800MHz) 20(10300~11700MHz)	1.5	50	1.60x0.80x0.60	D
RFBPF1608060K98Q1C	5.15~5.95	0.6max.(25°C) 0.8max.(-40~+85°C)	40(30~2700MHz) 12(7250~7800MHz) 20(7250~7800MHz) 2(10300~11700MHz)	1.5	50	1.60x0.80x0.60	D
RFBPF1608060KC8Q1C	4.90~5.95	1.3max.(25°C) 1.5max.(-40~+85°C)	38(30~2700MHz) 16(3453~3547MHz) 33(3667~3883MHz) 9(6900~7093MHz) 32(7333~7750MHz) 40(10600~11650MHz) 18(15540~17760MHz)	1.5	50	1.60x0.80x0.60	D
RFBPF1608060KG8D1T	5.15~5.95	0.8	40(30~2700MHz) 45(3400~3800MHz) 20(6900MHz) 20(7250~7800MHz) 20(10300~11700MHz)	1.67	50	1.60x0.80x0.60	D
RFBPF1608060KVT	4.90~5.84	1.5max.(25°C) 1.7max.(-40~+85°C)	33(100~2170MHz) 29(2170~2500MHz) 32(9800~12000MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1607K118D1T	5.15~5.95	0.6max.(25°C) 0.8max.(-40~+85°C)	35(2400~2500MHz) 30(10300~11700MHz) 30(15540~17550MHz)	1.57	50	1.60x0.80x0.60	D
RFBPF1606K12T	5.15~5.925	1.1max.(25°C) 1.3max.(-40~+85°C)	38(10~2700MHz) 20(2700~3550MHz) 15(3550~4000MHz) 3(4000~4500MHz) 5(4400MHz) 3(6500~7000MHz) 11(7000~7400MHz) 13(7400~9750MHz) 30(9750~10300MHz) 27(10300~12750MHz) 10(15540~17775MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1607K13T	5.15~5.925	1.0max.(25°C) 1.2max.(-40~+85°C) 1.3max.(-40~+105°C)	35(699~2690MHz) 30(3300~3800MHz) 30(3800~4200MHz) 4(4400~4600MHz) 20(6900~7200MHz) 30(7200~7800MHz) 20(7800~9800MHz) 25(9800~11700MHz) 25(14700~17850MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1607K158D1T	5.15~5.95	0.6max.(25°C) 0.8max.(-40~+85°C)	35(2400~2500MHz) 30(10300~11900MHz) 25(15450~17850MHz)	1.57	50	1.60x0.80x0.60	D
RFBPF1606K16T	4.90~5.925 5.95~6.425	1.1max.(25°C) 1.2max.(-40~+85°C) 1.6.1max.(25°C) 1.8max.(-40~+85°C)	38(30~2700MHz) 35(3400~3800MHz) 15(6900MHz) 20(7250~7800MHz) 20(10300~11700MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1606K28T	4.90~5.95	1.2max.(25°C) 1.4max.(-40~+85°C)	38(30~2700MHz) 16(3453~3547MHz) 33(3667~3883MHz) 9(6900~7093MHz) 32(10600~11650MHz) 18(15540~17760MHz)	2.0	50	1.60x0.80x0.60	D

5GHz WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1606K358Q1C	5.15~7.125	1.3(5150~5250MHz) 1.2(5250~5350MHz) 1.0(5500~5850MHz) 1.0(5850~7015MHz) 1.2(7015~7125MHz)	40(100~960MHz) 40(1160~1250MHz) 38(1420~1610MHz) 38(1690~2200MHz) 38(2300~2370MHz) 38(2400~2490MHz) 38(2490~2690MHz) 38(3300~3800MHz) 35(3800~4200MHz) 11(4500~4600MHz) 14(8220~8500MHz) 27(9000~9600MHz) 25(9600~9800MHz) 25(10300~11850MHz) 30(11850~14250MHz) 20(15450~21750MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1607K378D1T	5.15~5.955	0.6max.(25°C) 0.8max.(-40~+85°C)	35(2400~2500MHz) 30(10300~11900MHz) 25(15450~17850MHz)	1.57	50	1.60x0.80x0.60	D
RFBPF1606K41T	5.15~7.125	1.1max.(25°C) 1.3max.(-40~+85°C)	40(100~960MHz) 40(1160~1250MHz) 40(1420~1610MHz) 40(1690~2200MHz) 40(2300~2370MHz) 40(2400~2490MHz) 40(2490~2690MHz) 43(3300~3800MHz) 20(3800~4200MHz) 35(9600~9800MHz) 36(10300~11850MHz) 30(11850~14250MHz) 15(15450~21750MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1607K47T	5.15~5.925	1.2max.(25°C) 1.4max.(-40~+85°C)	35(10~2700MHz) 23(2700~3550MHz) 20(3550~4000MHz) 3(4000~4500MHz) 10(4400MHz) 3(6500~7000MHz) 11(7000~7400MHz) 13(7400~9750MHz) 28(9750~10300MHz) 25(10300~12750MHz) 15(15450~17775MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1606K488A2U	5.15~6.425	1.35(5150~5925MHz) 2.00(5925~6425MHz)	30(2700~4200MHz) 33(7200MHz) 25(10300~11800MHz) 10(14500~19100MHz)	1.7	50	1.60x0.80x0.60	D
RFBPF1606K59T	5.15~7.125	0.9(5150~5925MHz) 1.0(5925~7125MHz)	40(2400~2500MHz) 8(7900~9500MHz) 30(10300~14250MHz) 20(15510~21375MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1606K62T	4.9~5.9	1.1max.(25°C) 1.3max.(-40~+85°C)	38(30~2700MHz) 16(3453~3547MHz) 33(3667~3883MHz) 9(6900~7093MHz) 20(7333~7750MHz) 35(10600~11650MHz) 15(15540~17760MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF2012100KST	4.9~5.9	1.5(4.90GHz) 1.5(5.25GHz) 1.5(5.85GHz)	30(3450MHz) 20(11000MHz)	2.0	50	2.00x1.20x1.00	B
RFBPF2012100K0T	4.9~5.9	1.7(4.90GHz) 1.5(5.25GHz) 1.5(5.85GHz)	30(3450MHz) 20(11000MHz)	2.0	50	2.00x1.20x1.00	B
RFBPF2012090K5T	4.9~5.85	2.2max.(25°C) 2.5max.(-40~+85°C)	35(340~1195MHz) 19(2140~3580MHz) 25(6855~7150MHz) 20(8570~8930MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2012100K3T	4.9~5.85	1.8max.(25°C) 2.1max.(-40~+85°C)	30(500MHz) 35(3450MHz) 30(4000MHz) 20(4200MHz) 15(9800MHz) 15(11700MHz)	2.0	50	2.00x1.20x0.95	B
RFBPF2012100K6T	5.15~5.85	1.6max.(25°C) 1.8max.(-40~+85°C)	30(500MHz) 40(2000MHz) 35(3450MHz) 30(4000MHz) 20(4200MHz)	2.0	50	2.00x1.20x0.95	B
RFBPF2009K16T	4.9~5.85	2.2max.(25°C) 2.5max.(-40~+85°C)	40(340~1195MHz) 21(2140~3580MHz) 25(6855~7150MHz) 20(8570~8930MHz)	2.5	50	2.00x1.20x0.95	B

5GHz WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF2009K648A2U	5.16~6.425	2.0max.	30(3300~4200MHz) 25(4200~4600MHz) 20(4600~4800MHz) 10(4800~4900MHz) 2(4900~5000MHz) 30(7250~7750MHz)	2.0	50	2.00x1.20x0.95	B

WIMAX BAND WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF10033G7W07Q6U	3300~4200	1.5max.(25°C) 1.7max.(-40~+85°C)	23(1400~2000MHz) 25(1710~1880MHz) 12(2400~2482MHz) 22(2496~2690MHz) 19(6600~8400MHz) 19(13200~16800MHz)	1.67	50	1.00x0.50x0.32	L
RFBPF10053G7W2T	3300~4200	2.0max.(25°C) 2.2max.(-40~+85°C)	20(600~960MHz) 20(1164~1300MHz) 25(1476~1511MHz) 25(1559~1610MHz) 25(1710~2200MHz) 25(2300~2690MHz) 18(2400~2482MHz) 1(4215~5115MHz) 20(5150~5925MHz) 10(6600~8400MHz) 10(9900~12600MHz) 15(13200~21000MHz)	2.0	50	1.00x0.50x0.35	L
RFBPF16062G5W0T	2300~2690	2.0max.(25°C) 2.2max.(-40~+85°C)	12(100~1800MHz) 25(3600~4000MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF16083G7W3T	3300~4200	1.7max.(25°C) 1.9max.(-40~+85°C)	30(100~2570MHz) 35(2170MHz) 25(2620~2690MHz) 20(5150~5950MHz) 27(6600~8400MHz) 27(9900~12600MHz)	2.0	50	1.60x0.80x0.35	D
RFBPF20123G7W2T	3300~4200	2.0(3300~4200MHz) 2.0(3300~3800MHz) 1.5(3400~3800MHz)	36(450~2200MHz) 38(2300~2483MHz) 33(2496~2690MHz) 25(5150~5850MHz) 25(6600~8400MHz) 15(9900~12600MHz) 15(13200~16800MHz)	2.1	50	2.00x1.25x0.65	D
RFBPF20123G7W4T	3300~4200	2.0(3300~4200MHz) 2.0(3300~3800MHz) 1.5(3400~3800MHz)	36(450~2200MHz) 38(2300~2483MHz) 33(2496~2690MHz) 25(5150~5850MHz) 25(6600~8400MHz) 15(9900~12600MHz) 15(13200~16800MHz)	2.1	50	2.00x1.25x0.65	D
RFBPF20124G1W0T	3300~5000	1.2max.(25°C) 1.3max.(-40~+85°C)	23(700~2690MHz) 17(6000~10000MHz) 17(10000~15000MHz)	2.0	50	2.00x1.25x0.65	D
RFBPF25102G5W0T	2300~2720	2.8max.(25°C) 3.0max.(-40~+85°C)	55(0~1000MHz) 28(1000~2000MHz) 12(2949~2956MHz) 12(2956~3110MHz) 35(3110~3301MHz) 42(3360~3400MHz) 55(3400~3600MHz) 42(3600~3640MHz) 35(3640~3800MHz) 30(3800~6000MHz)	1.95	50	2.50x2.00x1.00	A

1558 ~ 1606 /1550 ~1610 MHz Applications

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1109060E0T	1550~1610	1.9max.	25(960MHz) 8(1850MHz) 15(1990MHz) 20(2170MHz) 35(2400~2500MHz) 35(3400~3800MHz)	2.0	50	1.10x0.90x0.60	E
RFBPF1411070E0T	1558~1606	1.8max.(25°C) 2.0max.(-40~+85°C)	30(824~849MHz) 30(880~915MHz) 10(1880~1910MHz) 22(1920~1980MHz) 30(2400MHz)	2.0	50	1.40x1.10x0.70	E

MoCA / Docsis Application

Part Number	Frequency Range(MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF3225180Y1T	975~1025	3.0	30(54~870MHz) 30(1125~1675MHz) 30(2300MHz)	2.0	75	3.20x2.50x1.80	K
RFBPF3225200Y07B1U	475~675	2.5max.(25°C) 2.7max.(-40~+85°C)	60(2.5MHz) 40(2.5~100MHz) 35(100~200MHz) 35(200~300MHz) 8(300~400MHz) 57(950MHz) 47(950~2025MHz) 41(2025~2500MHz) 35(2500~3000MHz)	2.0	75	3.20x2.50x1.80	K
RBBPF3225180Y27B1U	400~700	2.0	42(1~200MHz) 30(950~2150MHz) 35(2150~3000MHz) 27(3000~5900MHz)	2.0	50	3.20x2.50x1.80	K
KFBPF2012100C67B1U	1125~1675	2.5	35(1~900MHz) 20(900~1002MHz) 35(2000~2500MHz) 20(2500~5900MHz)	2.0	50	2.00x1.25x1.05	K
RFBPF3225180C07B1U	1125~1675	1.8max.(25°C) 2.0max.(-40~+85°C)	30(5~864MHz) 34(864~1002MHz) 32(2300~3000MHz)	2.0	75	3.20x2.50x1.80	K
RBBPF3225180C67B1U	1125~1675	2.0	40(1~900MHz) 25(900~1002MHz) 35(2000~2500MHz) 27(2500~5900MHz)	2.0	50	3.20x2.50x1.80	K

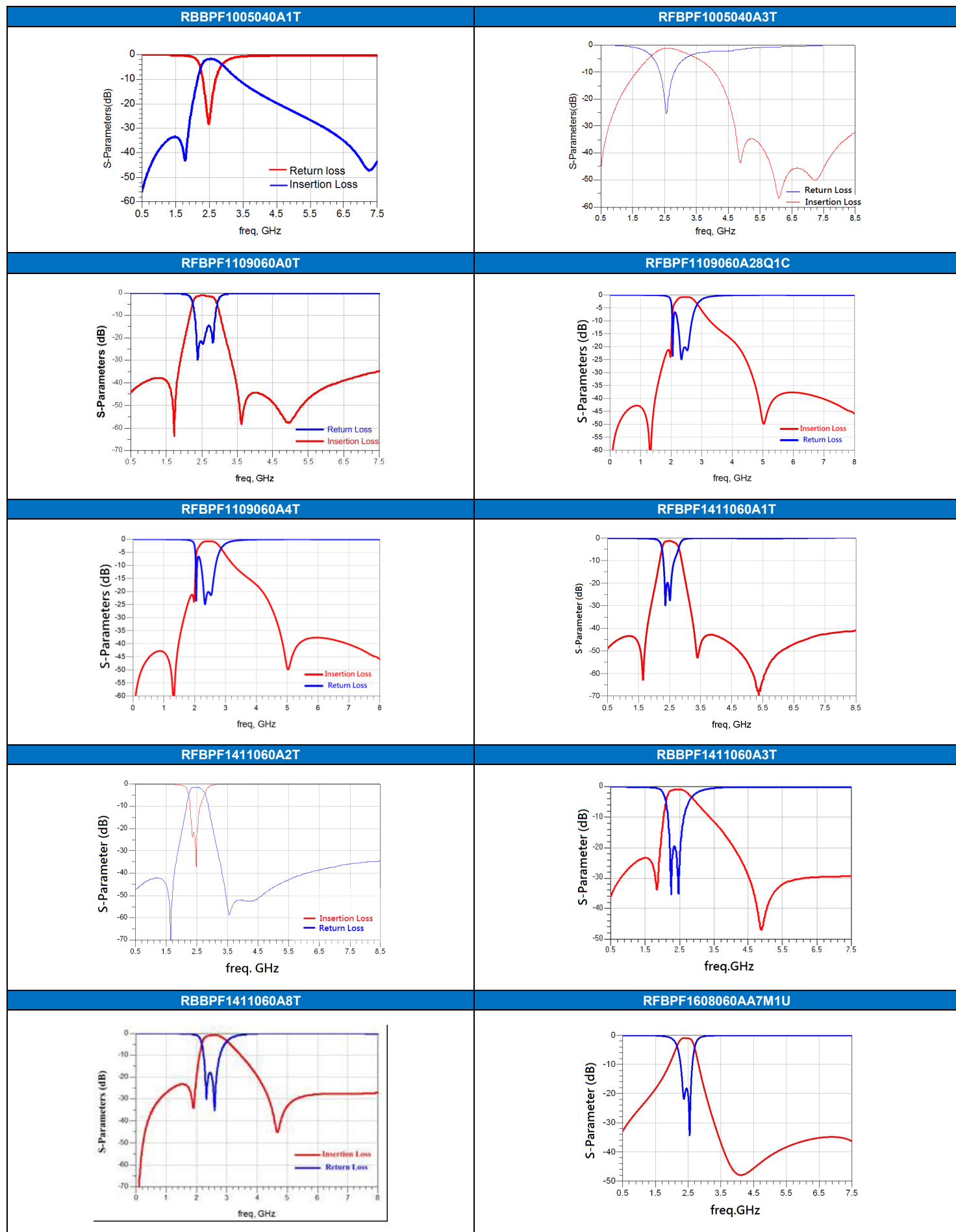
LTE Band Application

Part Number	Frequency Range(MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1109B501T	869~894	0.9	12(1763MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B801T	925~960	0.9	12(1885MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B301T	1805~1880	1.4	25(3685MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B201T	1930~1990	1.7	25(3920MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B101T	2110~2170	1.7	25(4280MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B701T	2620~2690	1.2	25(5310MHz)	2	50	1.10x0.90x0.60	E
RFBPF1607E11T	1427~2690	0.5max.(25°C) 0.6max.(-40~+85°C)	11(617~915MHz) 17(5150~5960MHz)	1.67	50	1.60x0.80x0.65	G
RFBPF16081G9DM1T79	1805~2025	1.6max.(25°C) 1.8max.(-40~+85°C)	25(700~950MHz) 15(950~1050MHz) 25(2400~2500MHz) 35(2700~5150MHz) 40(5150~5850MHz) 25(5850~12750MHz)	2	50	1.60x0.80x0.70	G
RFBPF16081G9DMAT79	1880~2025	2.0max.(25°C) 2.2max.(-40~+85°C)	20(1545~1610MHz) 25(2400~2500MHz) 25(5150~5850MHz)	2	50	1.60x0.80x0.70	G
RFBPF16081G9DS8T60	1805~2025	1.6	30(700~950MHz) 15(950~1050MHz) 25(2400~2500MHz) 35(2700~5400MHz) 35(5500~6200MHz) 35(9350~10150MHz) 20(10500~12750MHz)	2	50	1.60x0.80x0.70	G
RFBPF16081G9D87O1C	1805~2025	1.90(1805~1880MHz) 1.80(1880~2025MHz)	20(1545~1610MHz) 18(2400~2500MHz) 25(5150~5850MHz)	2	50	1.60x0.80x0.70	G
KFBPF2012100E2T	1870~3030	0.7	25(902~928MHz) 30(4800~7500MHz)	2	50	2.00x1.25x1.05	J

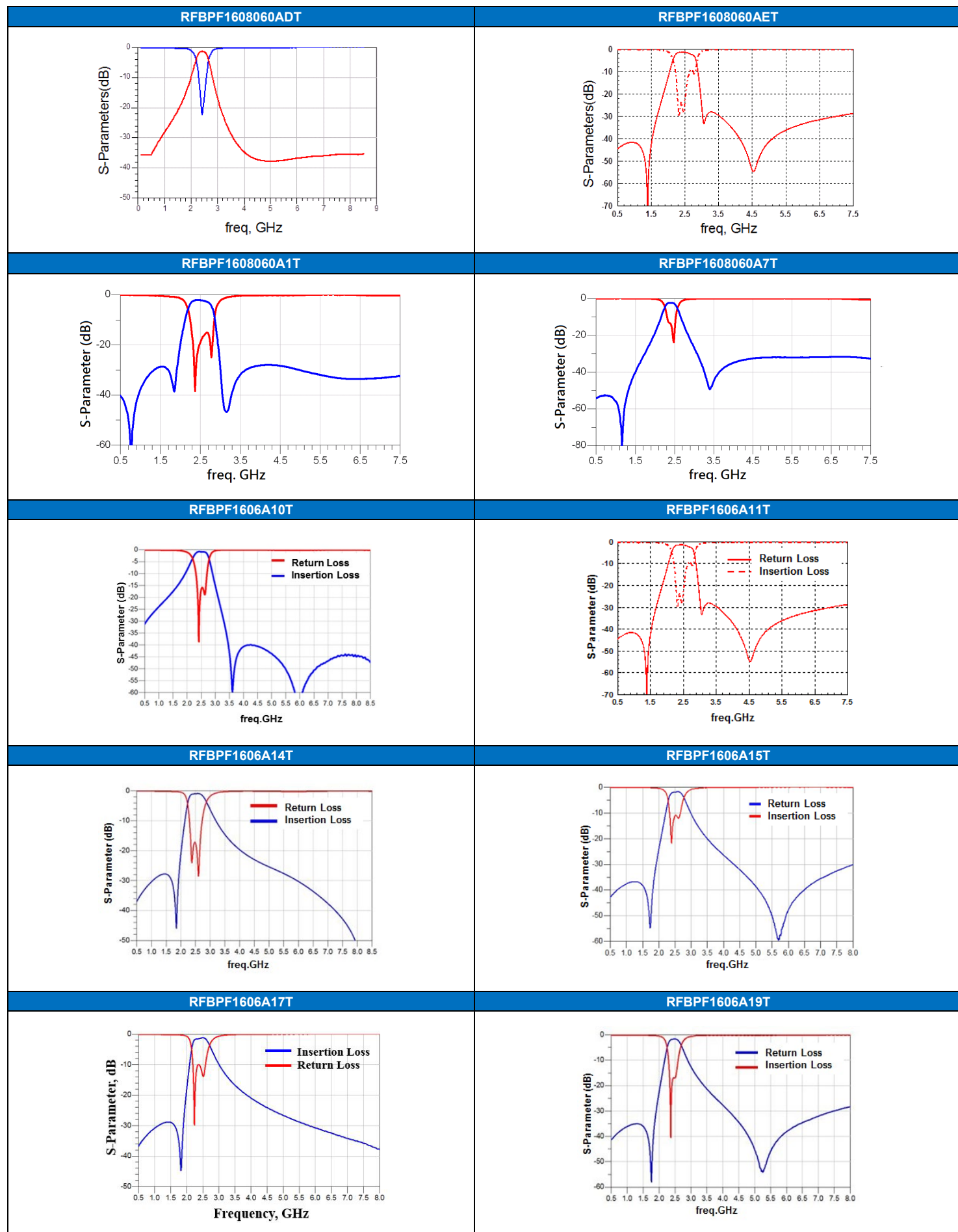
UWB Band Application

Part Number	Frequency Range(MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
AMBPF20087G4W17C2E	6240~8650	2.6(6240~6270MHz) 2.4(6270~6300MHz) 2.0(6300~6350MHz) 1.8(6350~6500MHz) 1.5(6500~8250MHz) 1.9(8250~8650MHz)	25(DC~5500MHz)) 20(5500~5700MHz) 15(5700~5835MHz) 10(9500~12000MHz) 25(12000~20000MHz))	2.32	50	2.00x1.20x0.85	B
RFBPF25207G3W1T	6230~8500	3.9(6230~7238MHz) 2.0(7240~8500MHz)	30(600~2200MHz) 30(2300~3800MHz) 30(5170~5330MHz) 20(5490~5730MHz) 20(5730~5835MHz) 20(12000~17000MHz)	2	50	2.50x1.20x1.00	A

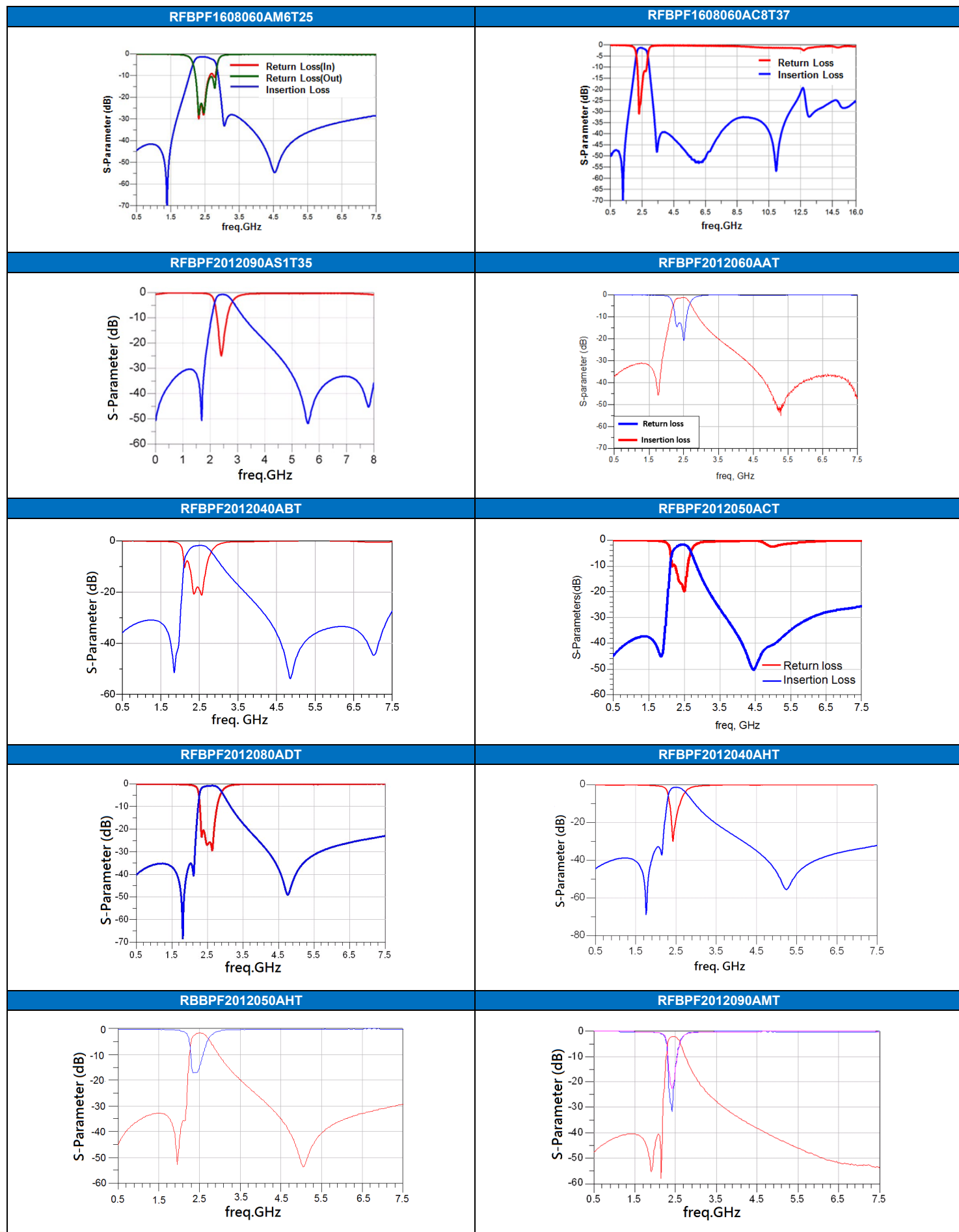
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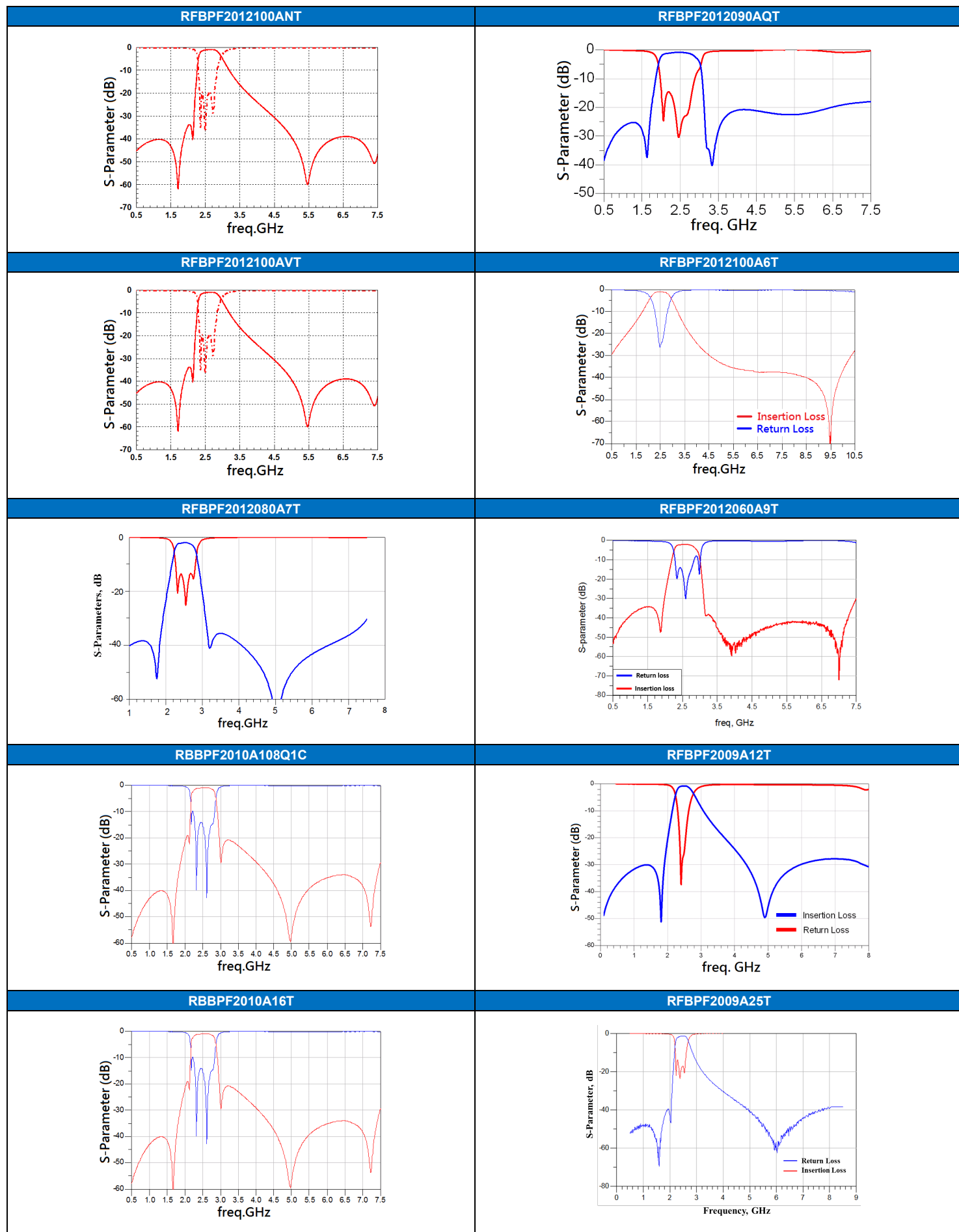
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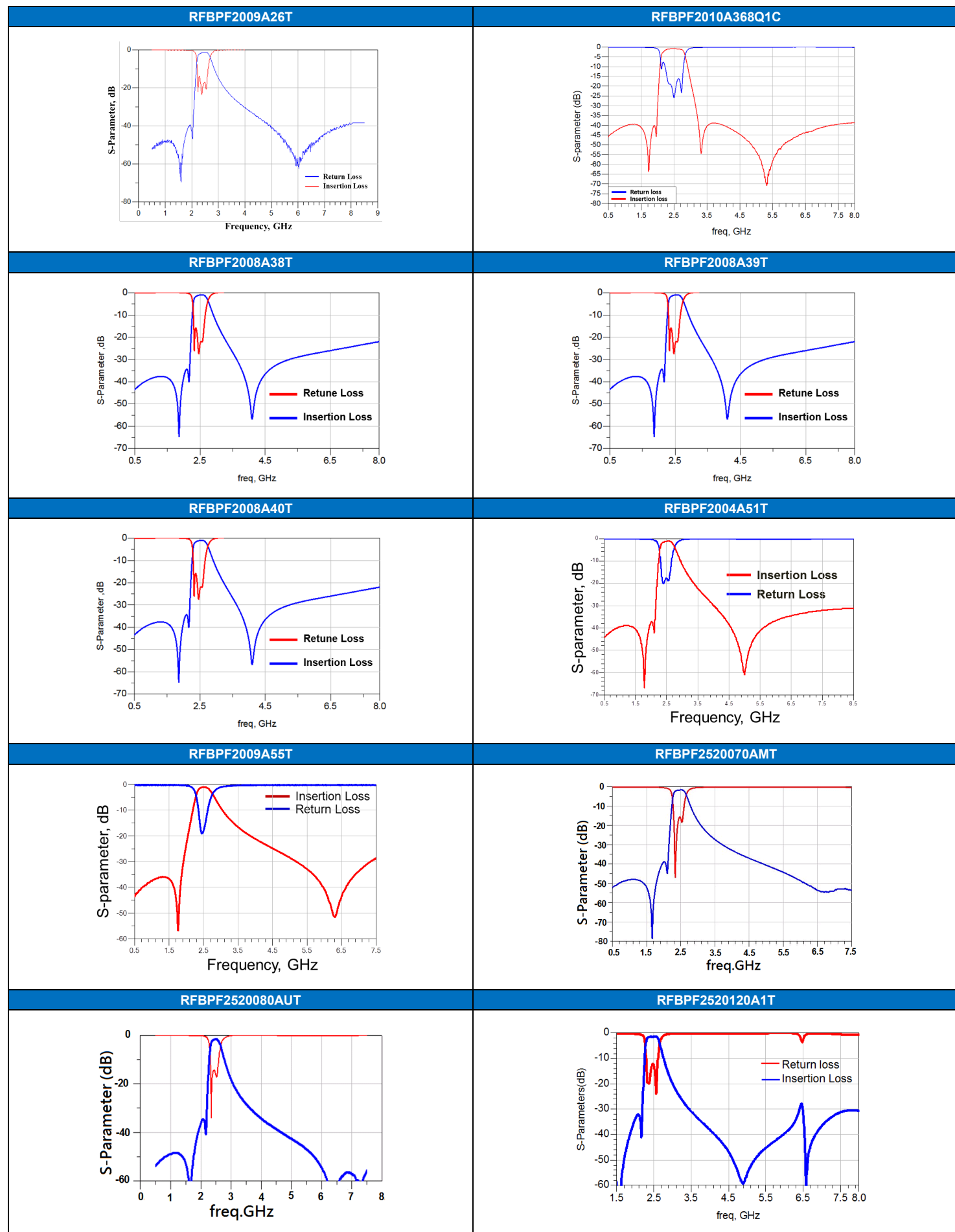
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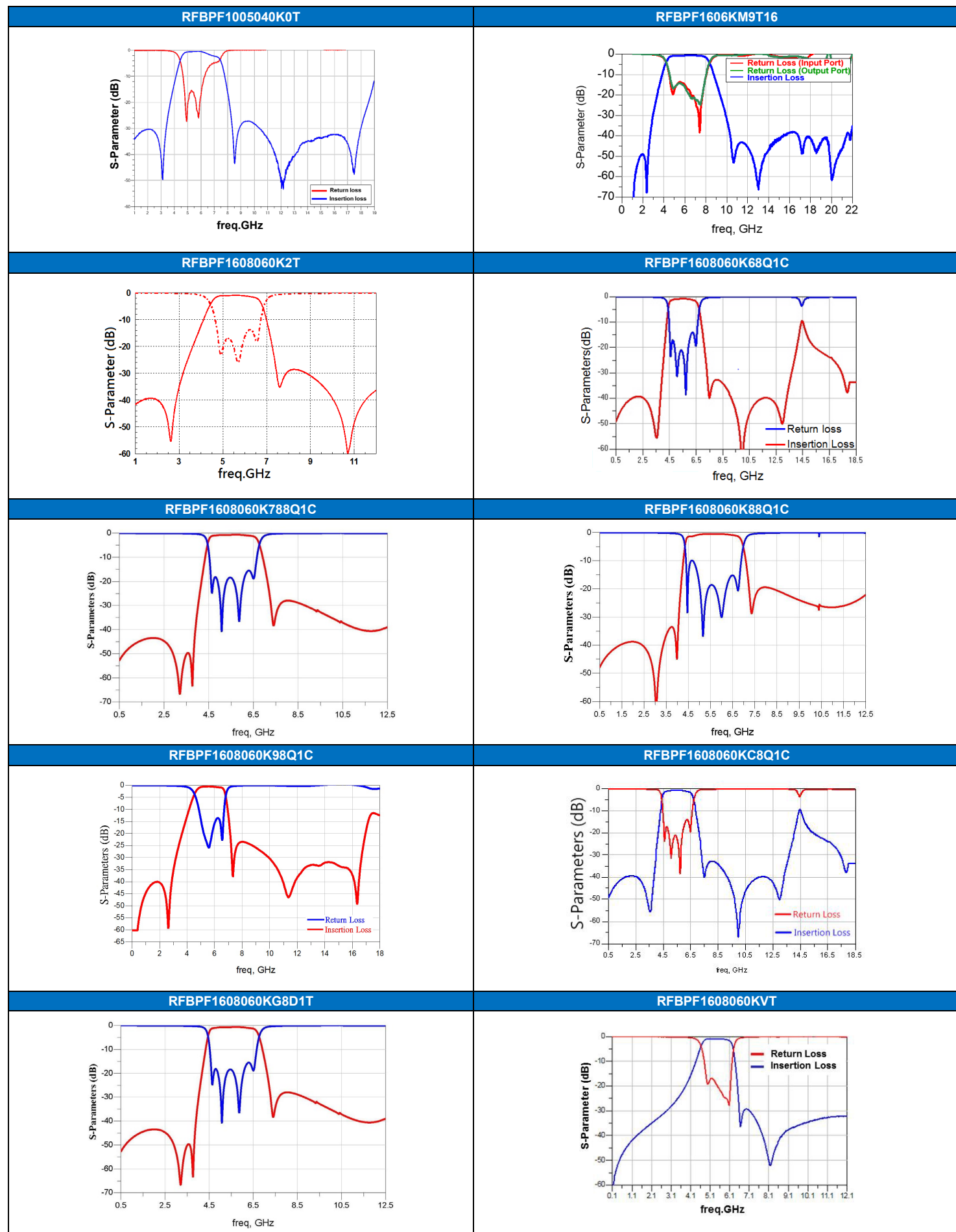
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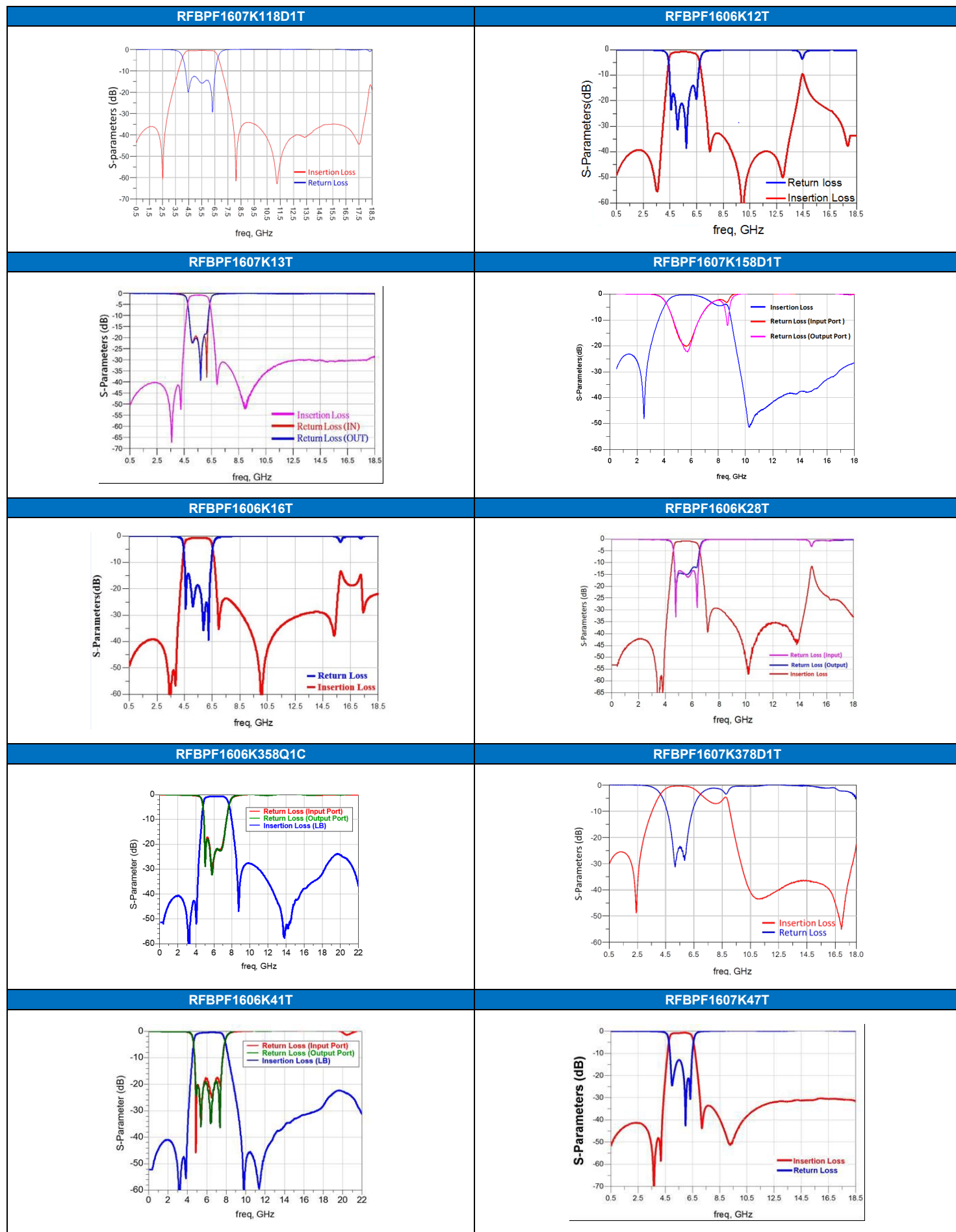
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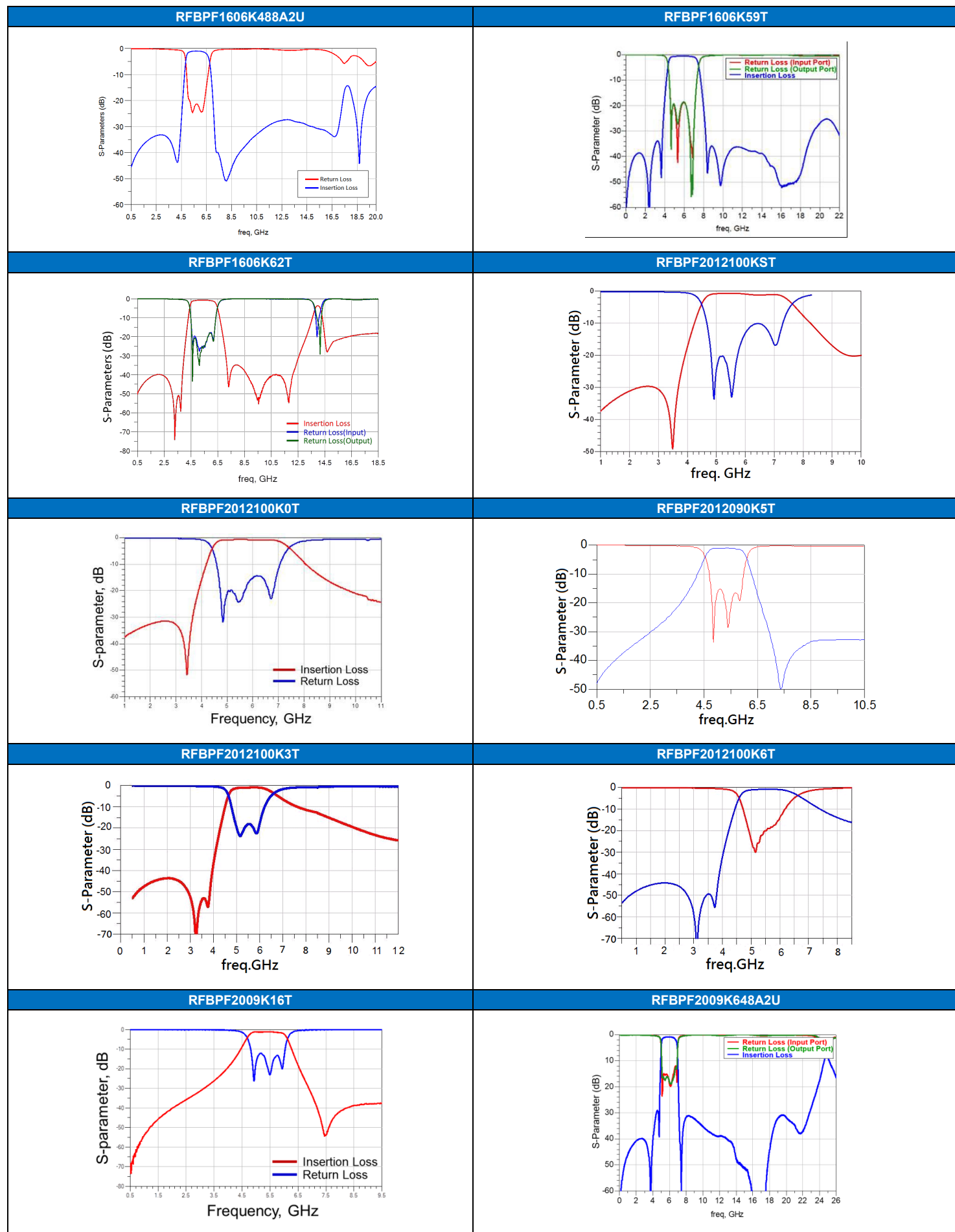
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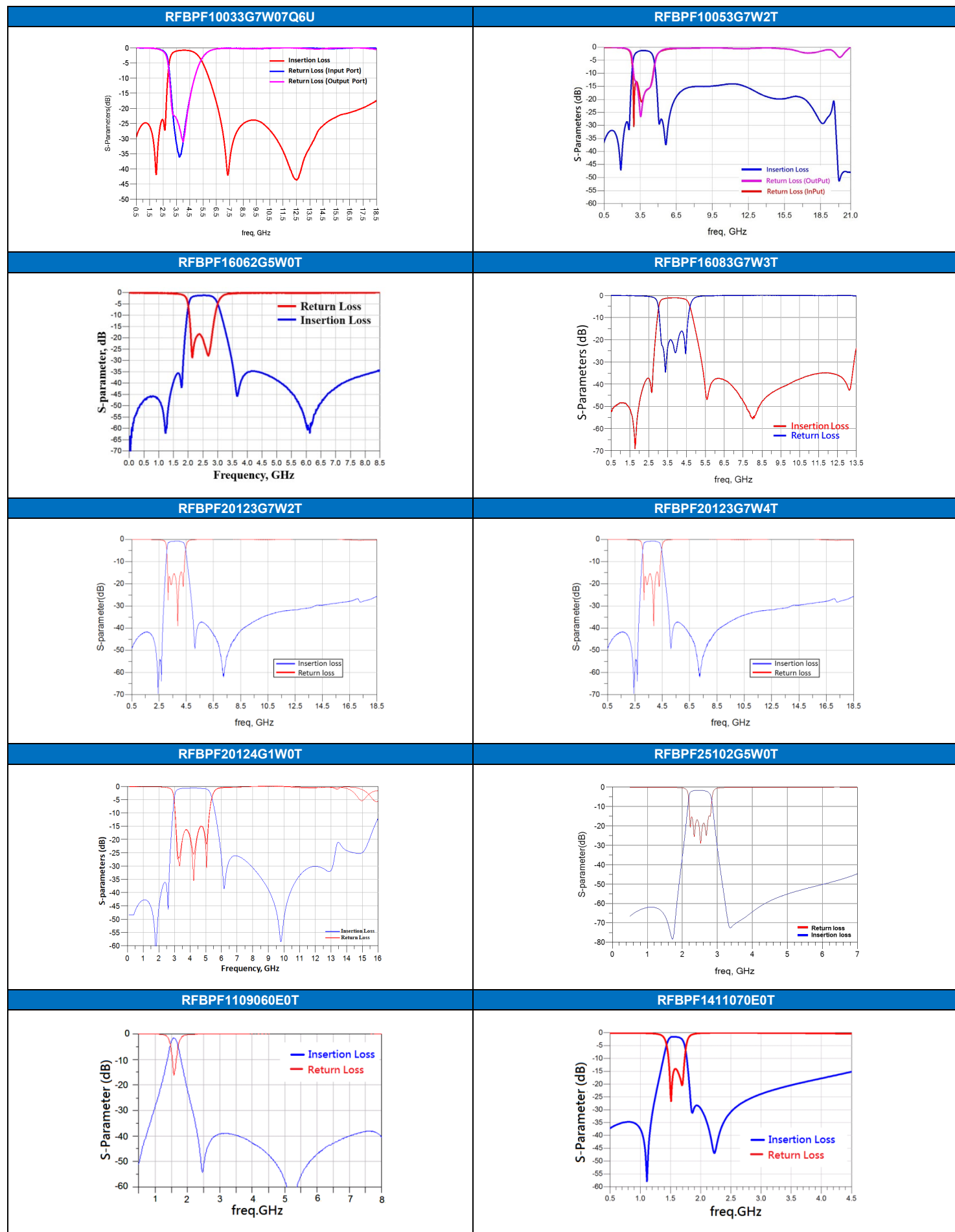
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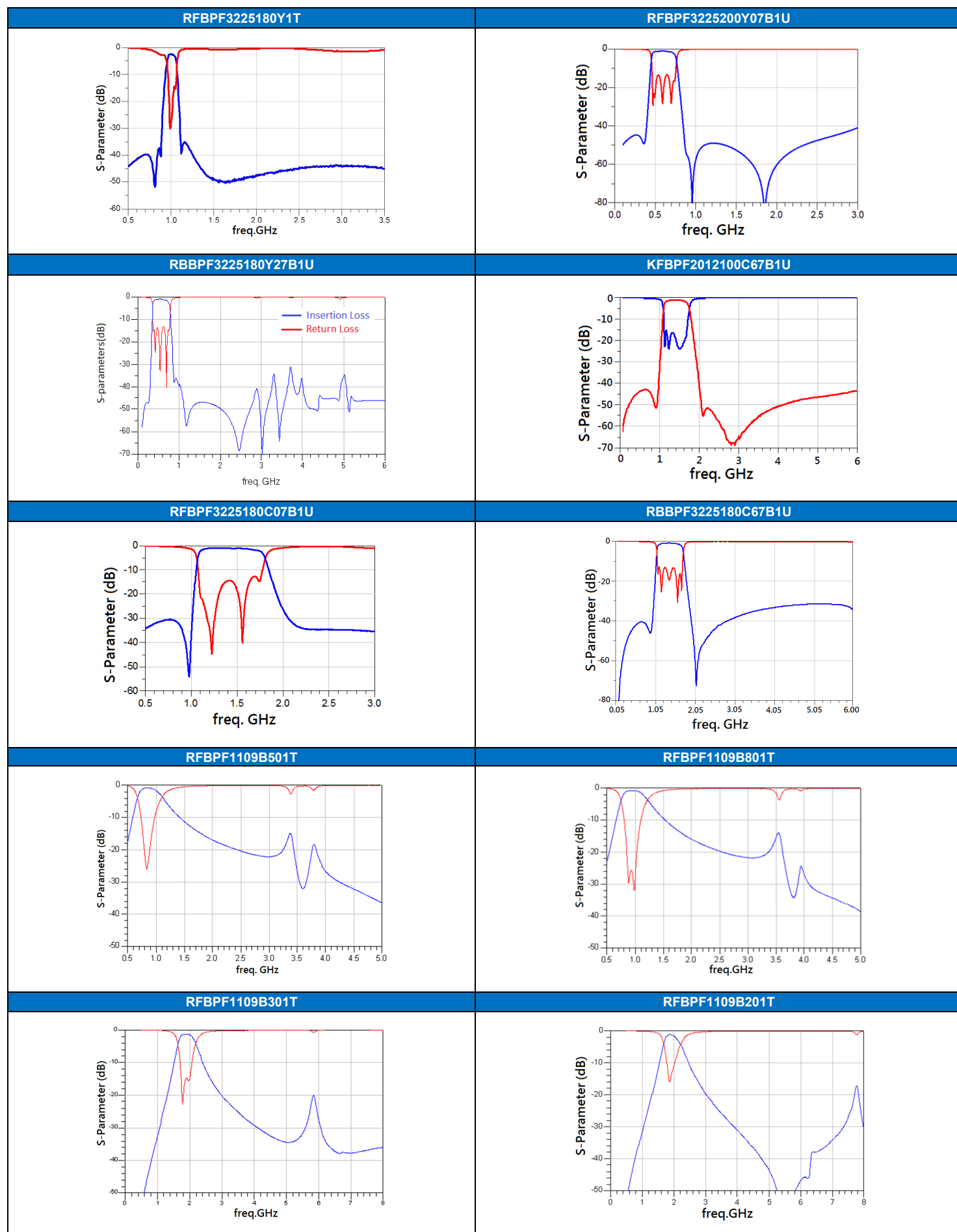
TYPICAL ELECTRICAL CHARACTERISTICS



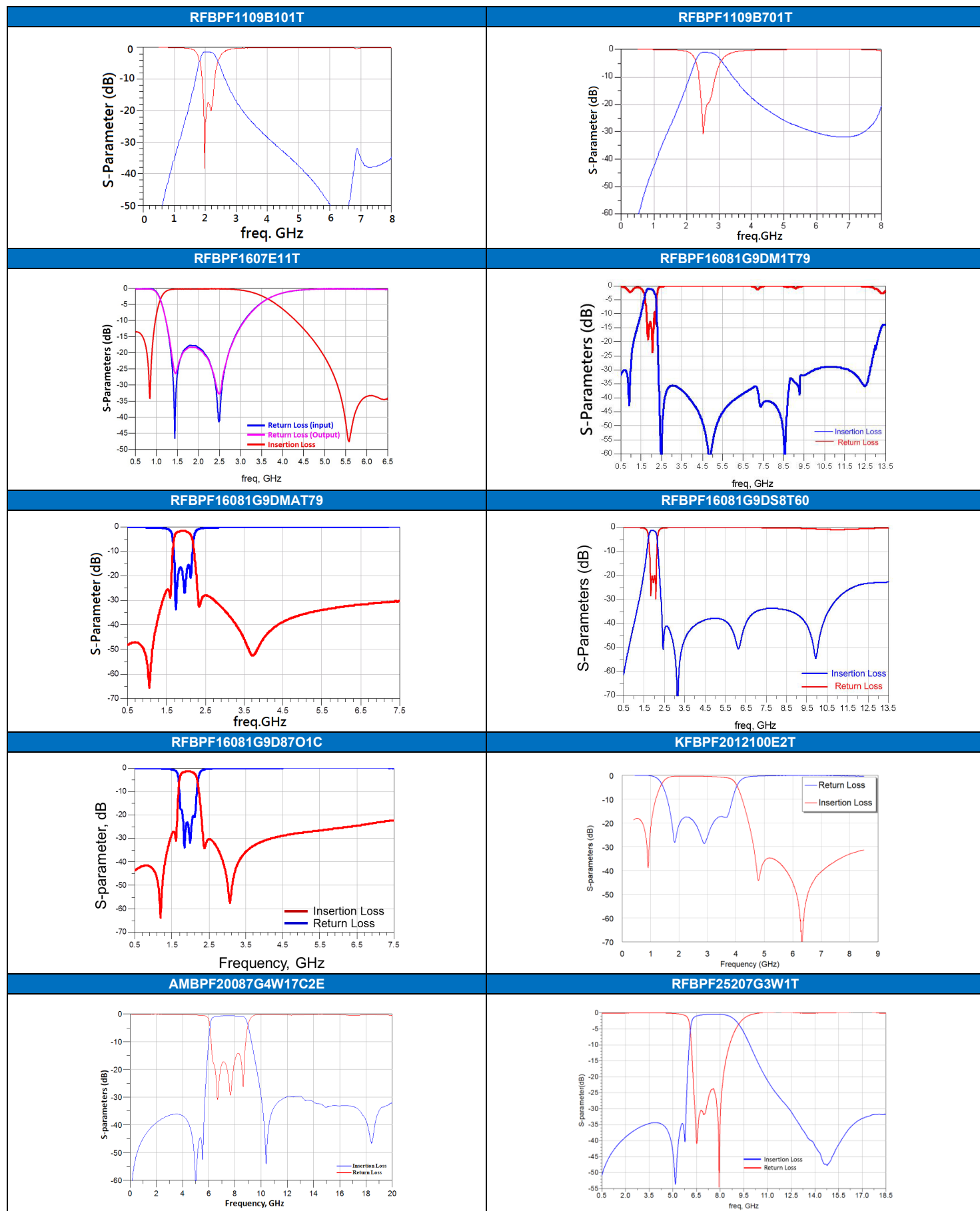
TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



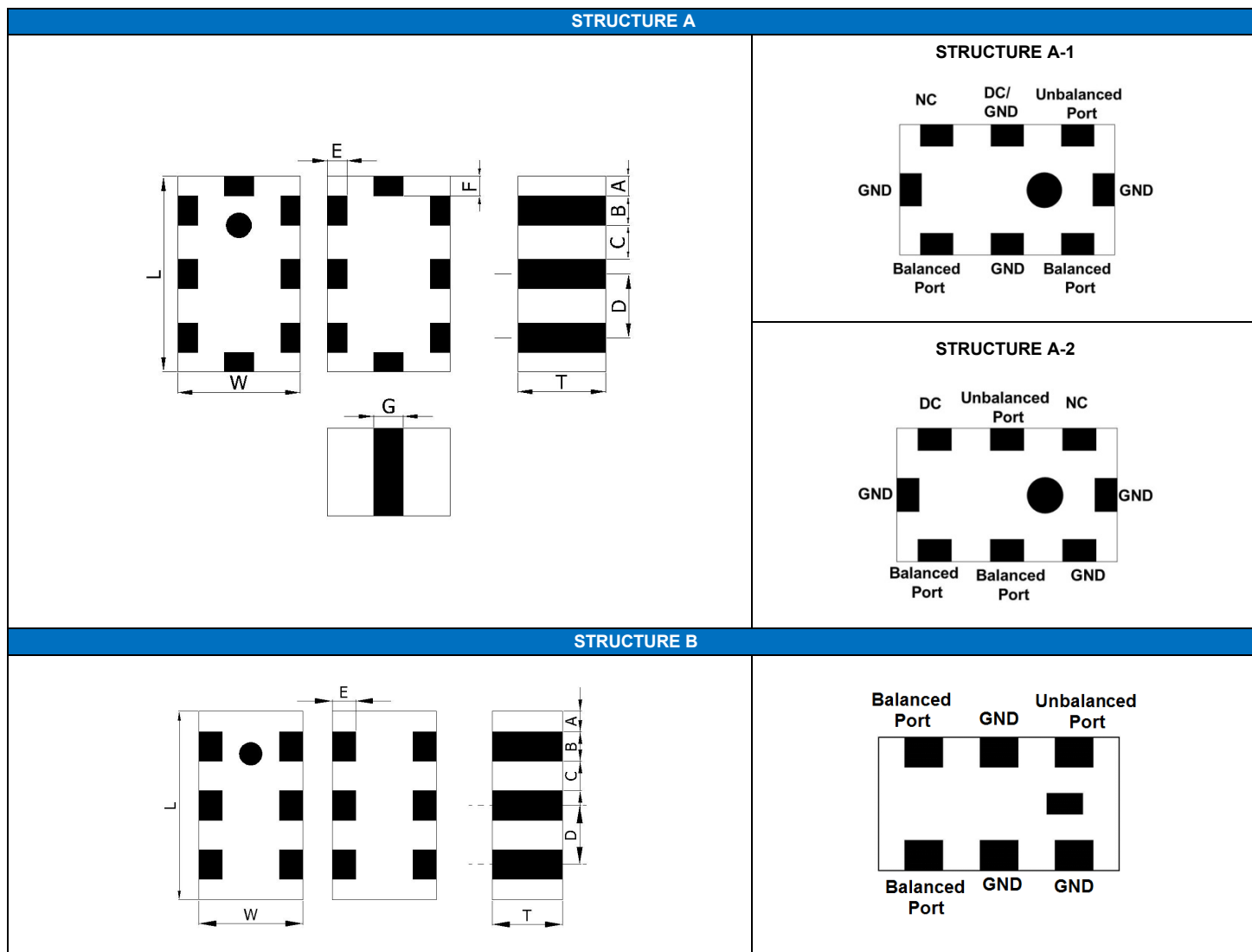
TYPICAL ELECTRICAL CHARACTERISTICS



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HIGH FREQUENCY MULTILAYER BALANCED FILTER

■ STRUCTURE AND PIN ASSOCIATED



■ STRUCTURE AND DIMENSION

Unit: mm

Structure/ Dimension	L	W	T	A	B	C	D	E	F	G
A	1.60±0.15	0.80±0.15	0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	0.20±0.15	0.30±0.15
	2.00±0.15	1.20±0.10	0.40±0.10	0.175±0.10	0.35±0.15	0.30±0.15	0.65±0.10	0.20±0.10	0.20±0.15	0.50±0.10
		1.25±0.15	0.50±0.10	0.20±0.15	0.30±0.15	0.35±0.15	0.65±0.15	0.20±0.15	0.20±0.15	0.30±0.15
			0.60±0.10	0.20±0.15	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.15	0.20±0.15	0.50±0.10
			0.90±0.10	0.20±0.15	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.15	0.20±0.15	0.30±0.10
			1.00±0.10	0.20±0.15	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.15	0.50±0.10
			1.10±0.10	0.20±0.15	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.15	0.20±0.15	0.55±0.10
					0.50±0.10	0.35±0.10	0.65±0.10	0.20±0.15	0.20±0.15	0.50±0.10
	2.50±0.20	2.00±0.20	0.85±0.10	0.35±0.20	0.40±0.10	0.30±0.10	0.70±0.20	0.15(Typical)	0.15(Typical)	1.20±0.20
B	1.60±0.15	0.80±0.15	0.65±0.15	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.25±0.15	0.20±0.15	-
	1.95±0.15	1.25±0.15	0.80±0.10	0.175±0.15	0.30±0.15	0.35±0.15	0.65±0.15	0.25±0.15	-	-
	2.00±0.15	1.25±0.10	0.60±0.10	0.20±0.10	0.30±0.15	0.35±0.15	0.65±0.10	0.25±0.10	-	-

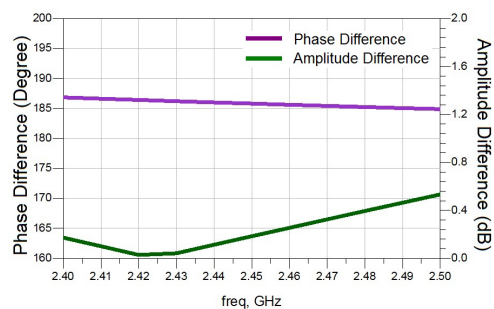
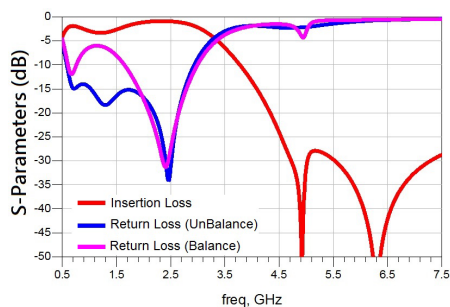
■ ELECTRICAL SPECIFICATION

2.4GHz BAND WORKING FREQUENCY

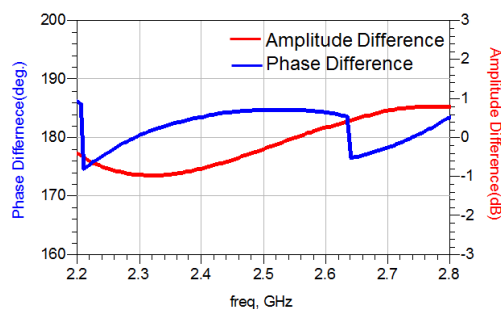
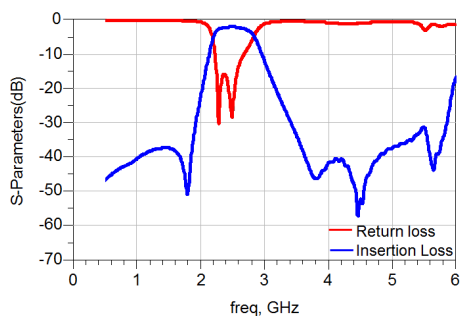
Part Number	Frequency Range (MHz)	Impedance(Ω)		Insertion Loss (dB)	Attenuation (dB min.)	VSWR (Max.)	Phase Difference	Amplitude Difference	Size (mm)	STRUCTURE
		Unbalance	Balance							
RFBPB1606A168T2T	2.4~2.5	50	Conjugate match to TI CC2652P chipset	1.6max.(25°C) 1.8max. (-40~+85°C)	23(4800~5000MHz) 23(7200~7500MHz)	2.4	180°± 20	2.5	1.60x0.80x0.65	B
RFBPB2012090A1T	2.4~2.5	50	Conjugate match to BC series of Bluetooth chipset	3.5	35(880~960MHz) 30(1710~1880MHz) 20(1880~1990MHz) 30(4800~5000MHz)	2.1	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012090A9T	2.4~2.5	50	Conjugate match to BC series of Bluetooth chipset	2.8	35(880~960MHz) 30(1575MHz) 25(1710~1880MHz) 30(4800~5000MHz)	2.1	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012090AAT	2.4~2.5	50	Conjugate match to CSR BC03/ 04 series	3.5	35(880~960MHz) 30(1710~1880MHz) 20(1880~1990MHz) 30(4800~5000MHz)	2.1	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012060ABT	2.4~2.5	50	Impedance match to T.I. CC253X, CC254X, CC257X, CC853X and CC852X Chipsets	1.5max.(25°C) 1.7max. (-40~+85°C)	12(1000MHz) 15(4800~5000MHz) 20(7200~7500MHz)	2.0	180°± 15	2	2.00x1.25x0.60	B
RFBPB2012080AET	2.4~2.5	50	Impedance match to: Atmel AT86RF232, AT86RF233, ATMega256RF R2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233	1.5max.(25°C) 1.7max. (-40~+85°C)	20(4800~5000MHz) 20(7200~7500MHz)	2.0	180°± 10	2	1.95x1.25x0.80	B
RFBPB2012090AHT	2.4~2.5	50	100	3.5	30(880~960MHz) 30(1710~1880MHz) 20(1880~1990MHz) 30(4800~5000MHz)	2.0	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012090AM1T59	2.4~2.5	50	Conjunction to MT5931/MT66 28 Chipset	2.5 (typ.2.2)	35(824~960 MHz) 32(1990 MHz) 18(2170 MHz) 40(4800~5000MHz) 25(7200~7500MHz)	2.0	180°± 10	2	2.00x1.25x0.95	A-1
RFBPB2012090AM1T61	2.4~2.5	50	Conjugate match to MTK MT6611 Bluetooth chipset	2.8	35(880~960MHz) 30(1710~1880MHz) 20(1880~1900MHz) 30(4800~5000MHz)	2.1	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012100A6T	2.4~2.5	50	Conjugate match to BC series of Bluetooth chipset	3.5	35(880~960MHz) 30(1710~1880MHz) 20(1880~1900MHz) 40(4800~5000MHz)	2.0	180°± 10	2	2.00x1.25x1.00	A-1
RFBPB2012090AYT	2.4~2.5	50	50	2.8max.(25°C) 3.2max. (-40~+85°C)	30(880~960 MHz) 30(1710~1880 MHz) 20(1880~1990 MHz) 30(4800~5000 MHz)	2.0	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2520090A7T	2.4~2.5	50	Conjugate match to TI BRF6150	3.5	35(880~960MHz) 30(1710~1880MHz) 25(1880~1990MHz) 25(4800~5000MHz)	2.0	180°± 15	1.5	2.50x2.00x0.90	A-2

TYPICAL ELECTRICAL CHARACTERISTICS

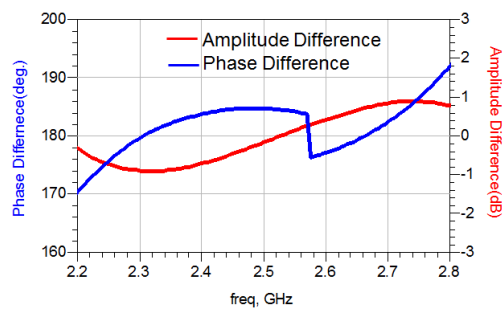
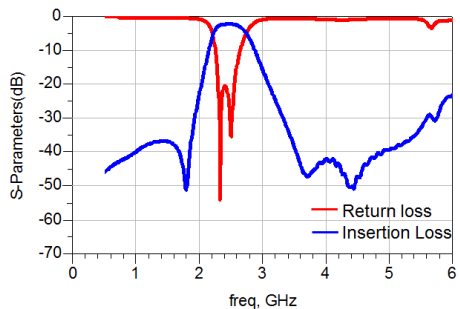
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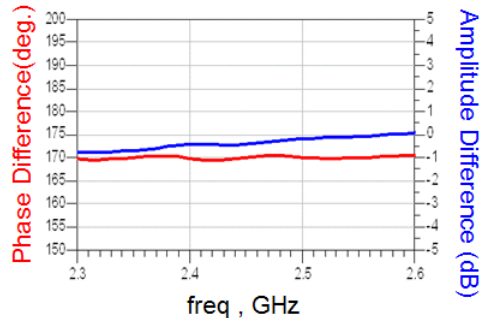
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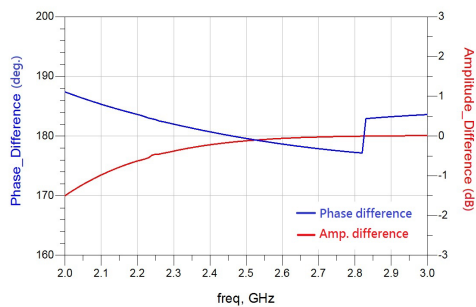
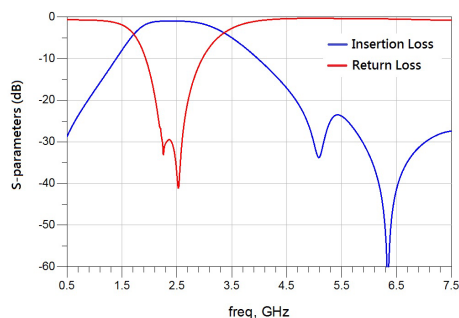
RFBPB2012090A9T



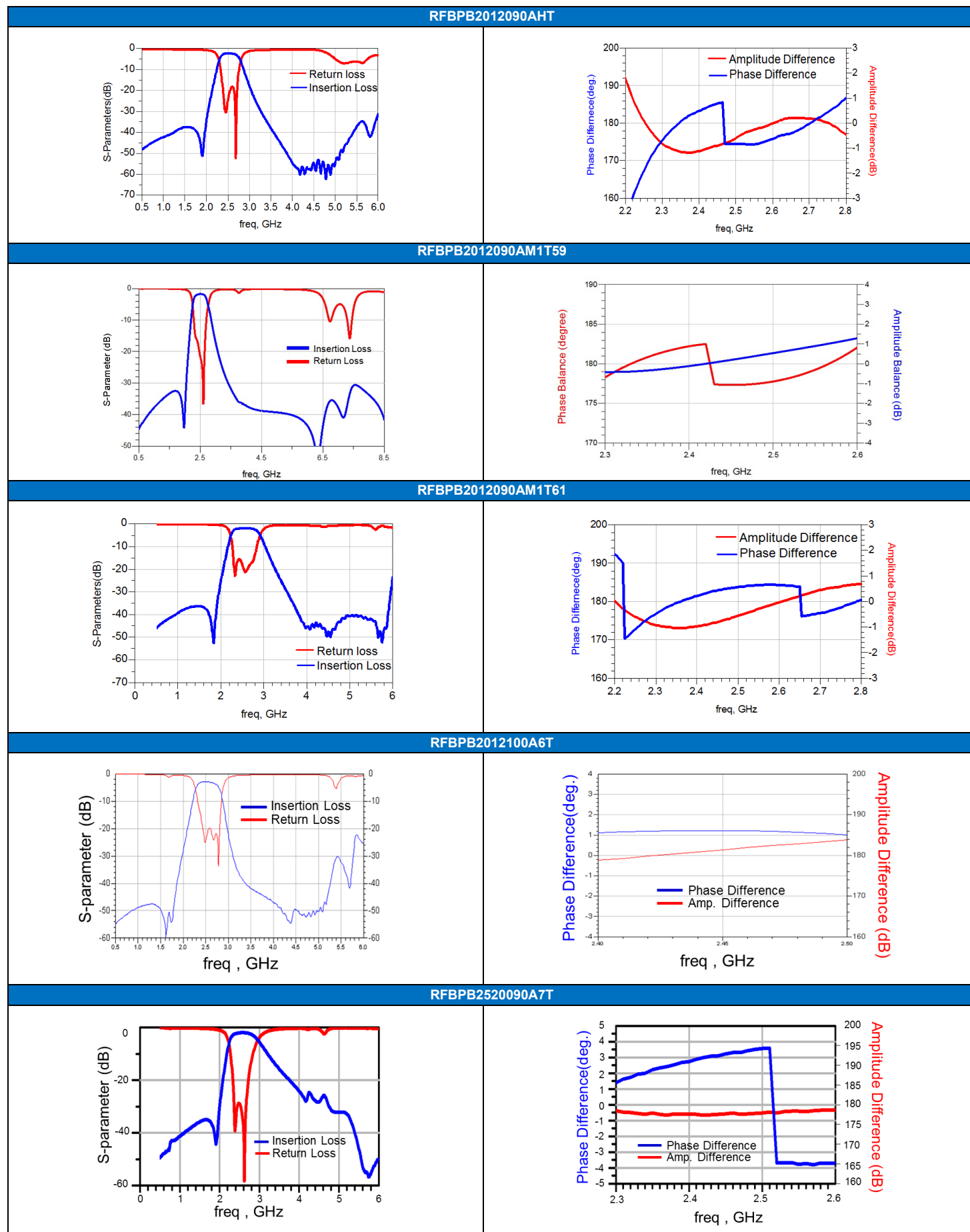
RFBPB2012060ABT



RFBPB2012080AET



TYPICAL ELECTRICAL CHARACTERISTICS



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HIGH FREQUENCY MULTILAYER LOW PASS FILTER

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A				
	STRUCTURE A-1 	STRUCTURE A-2 	STRUCTURE A-3 	STRUCTURE A-4
STRUCTURE B				
	STRUCTURE B-1 		STRUCTURE B-2 	
STRUCTURE C	STRUCTURE D	STRUCTURE E	STRUCTURE F	STRUCTURE G
STRUCTURE H	STRUCTURE I	STRUCTURE J	STRUCTURE K	STRUCTURE L

■ **STRUCTURE AND DIMENSION**

Unit: mm

Structure/ Dimension	L	W	T	A	B	C	D	E	F	G	H
A	1.60±0.15	0.80±0.15	0.50max.	0.20±0.10	0.24±0.10	0.24±0.10	0.50±0.10	0.15±0.10	-	-	-
			0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-
			0.65±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-
			0.70max.	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-
B	2.00±0.15	1.25±0.10	0.90±0.10	0.20±0.10	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.10	-	-
			0.95±0.10	0.20±0.10	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.10	-	-
			1.05±0.10	0.20±0.10	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.10	-	-
	3.20±0.20	2.50±0.20	1.00±0.20	0.10min.	0.55±0.15	0.45±0.15	1.00±0.15	0.30±0.15	0.70±0.20	-	-
C	1.00±0.10	0.50±0.10	0.40±0.10	0.35±0.10	0.30±0.10	0.15±0.10	0.15±0.10	0.30±0.10	-	-	-
	1.60±0.15	0.80±0.15	0.50max.	0.45±0.15	0.70±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.25±0.15	-	-
D	0.65±0.10	0.50±0.10	0.40max.	0.225±0.10	0.20±0.05	0.10±0.05	0.25±0.05	0.025±0.25	-	-	-
E	1.60±0.15	0.80±0.15	0.65max.	0.23±0.05	0.40±0.10	0.30±0.10	0.65±0.10	0.20±0.05	0.23±0.05	-	-
			0.60±0.10	0.23±0.05	0.40±0.10	0.30±0.10	0.65±0.10	0.20±0.05	0.23±0.05	-	-
			0.70max.	0.25±0.10	0.40±0.10	0.23±0.10	0.55±0.10	0.21±0.10	0.195±0.10	-	-
F	1.60±0.10	0.80±0.10	0.65max.	0.55±0.10	0.25±0.10	0.230.10	0.40±0.10	0.12±0.10	0.125±0.10	-	-
				0.60±0.10	0.25±0.10	0.25±0.10	0.40±0.10	0.10±0.05	0.10±0.05	-	-
	2.00±0.15	1.25±0.10	0.90±0.10	0.95±0.10	0.275±0.10	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10	-	-
			1.00max.	0.95±0.10	0.275±0.10	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10	-	-
G	1.00±0.10	0.50±0.10	0.40 max.	0.18±0.05	0.18±0.05	0.05±0.05	0.125±0.05	0.15±0.05	0.05±0.05	-	-
H	3.20±0.20	2.50±0.20	1.00±0.20	0.95±0.20	0.60±0.20	0.30±0.15	0.70±0.15	1.20±0.15	2.00±0.15	-	-
			1.80±0.20	0.95±0.20	0.60±0.20	0.30±0.15	0.70±0.15	1.20±0.15	2.00±0.15	-	-
I	1.60±0.15	0.80±0.10	0.70±0.10	0.20±0.10	0.50±0.10	0.35±0.10	0.15±0.10	-	-	-	-
J	0.65±0.10	0.50±0.10	0.35max.	0.225±0.10	0.20±0.05	0.125±0.05	0.25±0.05	-	-	-	-
K	1.40±0.15	1.10±0.15	0.80max.	0.325±0.10	0.25±0.10	0.25±0.10	0.25±0.10	-	-	-	-
L	3.20±0.20	2.50±0.20	2.00 max.	0.10min.	0.55±0.15	0.45±0.15	1.00±0.15	0.05±0.01	0.25±0.15	0.30±0.15	0.70±0.20

■ **ELECTRICAL SPECIFICATION**

GSM850/900GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF06050G9D0T	824~915	0.5max.(25°C) 0.7max.(-40~+85°C)	20(2400~2750MHz)	2.0	50	0.65x0.50x0.40	D
RFLPF06050G9D2T	699~960	0.5max.(25°C) 0.7max.(-40~+85°C)	20(2400~2750MHz)	2.0	50	1.00x0.50x0.40	D
RFLPF10050G9D0T	824~915	0.6	25(1648~1830MHz) 25(2472~2745MHz) 25(3296~3660MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10050G9D3T	824~915	0.5max.(25°C) 0.7max.(-40~+85°C)	25(1648~1830MHz) 25(2472~2745MHz) 25(3296~3660MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10050G9D4T	699~915	0.5max.(25°C) 0.7max.(-40~+85°C)	25(1648~1830MHz) 25(2472~2745MHz) 25(3296~3660MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10050G9D58Q1C	814~915	0.5max.(25°C) 0.65max.(-40~+85°C)	18(1648~1830MHz) 17(2472~2745MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10050G9D9T	698~915	1.2max.(25°C) 1.4max.(-40~+85°C)	30(1396~1830MHz) 30(2094~2745MHz)	2.0	50	1.00x0.50x0.40	G
RFLPF16080G9D4T	698~960	0.60(698~830MHz) 0.70(830~900MHz) 0.75(900~915MHz) 0.90(915~960MHz)	30(1554~1830MHz) 35(2097~2745MHz)	1.6	50	1.60x0.80x0.65	A-3
RFLPF16080G9D9T	690~960	0.9max.(25°C) 1.1max.(-40~+85°C)	20(1350~1920MHz) 48(2070~2880MHz)	1.92	50	1.60x0.80x0.55	E
RFLPF16080G9DA8Q1C	699~960	0.4max.(25°C) 0.6max.(-40~+85°C)	2(1406~1496MHz) 28(1574~1576MHz) 28(1597~1605MHz) 15(1648~1830MHz) 8(2472~2745MHz) 8(3296~3660MHz)	1.5	50	1.60x0.80x0.60	F
RFLPF16080G9DET	698~960	0.4max.(25°C) 0.45max.(-40~+85°C)	15(1574~1605MHz) 23(1648~1830MHz) 23(1805~1850MHz) 23(4944~5850MHz)	2.0	50	1.60x0.80x0.60	E
RFLPF16080G9DJT	434~960	0.6max.(25°C) 0.8max.(-40~+85°C)	25(1554~1610MHz) 30(1710~2700MHz)	2.0	50	1.60x0.80x0.65	A-1
RFLPF16080G9DM1T58	698~960	0.8	16(1565~1610MHz) 32(2110~2155MHz)	2.0	50	1.60x0.80x0.50	A-4
RFLPF20120G9D0T	890~915	0.6max.(25°C) 0.75max.(-40~+85°C)	30(1780~1830MHz) 30(2670~2745MHz)	2.0	50	2.00x1.25x0.95	B-2
RFLPF20120G9D1T	890~915	0.6max.(25°C) 0.75max.(-40~+85°C)	40(1720~1765MHz) 30(1780~1830MHz) 30(2670~2745MHz)	2.0	50	2.00x1.25x0.95	B-2
RFLPF20120G9D8T	863~960	0.7max.(25°C) 0.9max.(-40~+85°C)	46(1726~1856MHz) 50(2589~2784MHz)	2.0	50	2.00x1.25x0.95	B-2

DCS/PCS BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF10051G8D0T	1710~1910	0.8	35(3420~3570MHz) 35(3700~3820MHz) 35(5130~5730MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10051G8DM5T51	1710~1910	0.6	26(3420~3570MHz) 21(3700~3820MHz) 21(5130~5730MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF16081G8D3T	1710~1910	0.45max.(25°C) 0.55max.(-40~+85°C)	30(3420~3570MHz) 25(3700~3820MHz) 25(5130~5730MHz)	2.0	50	1.60x0.80x0.50	C
RFLPF16081G8D78Q1C	1880~2025	1.4	25(2400~2500MHz) 18(4020~4045MHz) 25(6030~6075MHz)	2.0	50	1.60x0.80x0.60	F
RFLPF16081G8DC8Q1C	1880~2170	0.60(1880~1920MHz) 0.70(1920~1980MHz) 0.80(2010~2170MHz) 2.00(2025~2170MHz)	15(2400~2500MHz) 20(3760~4050MHz) 12(5150~5850MHz) 12(5640~6075MHz) 5(7520~8100MHz)	2.0	20	1.60x0.80x0.60	E
RFLPF16081G8DHT	1710~1990	0.6max.(25°C) 0.8max.(-40~+85°C)	30.5(3420~3980MHz) 28.5(5130~5970MHz) 25.0(5970~12500MHz)	2.0	50	1.60x0.80x0.70	I
RFLPF20121G8D1T	1880~2025	1.35max.(25°C) 1.50max.(-40~+85°C)	38(2400~2500MHz) 25(4020~4045MHz) 27(6030~6075MHz)	1.9	50	2.00x1.20x0.90	F

2.4GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF0605030A0T	2400~2500	0.40max.(25°C) 0.50max.(-40~+85°C)	26(4800~5000MHz) 28(7200~7500MHz) 11(9600~10000MHz)	1.8	50	1.00x0.50x0.30	J
RFLPF1005040A2T	2400~2500	0.75max.(25°C) 0.90max.(-40~+85°C)	32(4800~5000MHz) 35(7200~7500MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF1408A10T	2400~2500	0.30max.(25°C) 0.35max.(-40~+85°C)	33(4800~5000MHz) 25(5150~5950MHz) 28(7200~7600MHz)	1.51	50	1.40x1.10x0.80	K
RFLPF1608060AAT	2400~2500	0.65	20(3603~3720MHz) 30(4804~4960MHz) 10(6005~6200MHz) 20(7206~7440MHz) 10(8407~8680MHz) 20(9608~9920MHz) 10(10809~11160MHz) 10(12010~12400MHz) 10(13211~13640MHz) 15(14412~14880MHz) 10(15613~16120MHz) 10(16814~17360MHz)	2.0	50	1.60x0.80x0.70	A-1
RFLPF1608060ABT	2400~2500	0.50	35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.60x0.80x0.60	A-1
RFLPF1608060A2T	2400~2500	0.42	25(4800MHz) 18(7200MHz)	1.5	50	1.60x0.80x0.60	A-1
RFLPF1608040A7T	2400~2500	0.45max.(25°C) 0.60max.(-40~+85°C)	35(4800~5000MHz) 35(7200~7500MHz)	1.17	50	1.60x0.80x0.40	E
RFLPF1608060A9T	2400~2500	0.50max.(25°C) 0.60max.(-40~+85°C)	20(3400MHz) 20(3600MHz) 30(4800~5000MHz) 30(7200~7500MHz)	2.0	50	1.60x0.80x0.60	E
RFLPF1607A11T	2400~2500	0.5	35(4800~5000MHz) 30(7200~7500MHz)	1.5	50	1.60x0.80x0.65	A-2
RFLPF2012110A0T	2400~2500	0.7	30(2x(fo±BW/2)) 20(3x(fo±BW/2))	1.5	50	2.00x1.25x1.05	B-1
RFLPF2012090A3T	2400~2500	0.5	27(4800~5000MHz) 30(7200~7500MHz)	2.0	50	2.00x1.25x0.95	B-2

5GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
KFLPF1005040K17N3T	5170~7125	0.35	10(10340~14250MHz) 25(15510~21375MHz)	1.65	50	1.00x0.50x0.40	D
RFLPF1608050K3T	4900~5950	0.70(25°C) 0.90(-40~+85°C)	20(9800MHz) 30(11900MHz)	1.67	50	1.60x0.80x0.50	I
RFLPF2012090K0T	4900~5900	0.55(25°C) 0.65(-40~+85°C)	30(9800MHz) 30(11800MHz) 20(17550MHz) (for reference)	2.0	50	2.00x1.25x0.90	B-1
RFLPF2012090K3T	5150~5875	0.60(25°C) 0.80(-40~+85°C)	25(10300~11750MHz) 25(15450~17625MHz)	2.0	50	2.00x1.25x0.90	B-2

LTE BAND APPLICATION

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF0604Y10T	777~787	0.60(25°C) 0.70(-40~+85°C)	30(1554~1607MHz) 19(2400~2500MHz) 9(5150~5850MHz)	2.0	50	0.65x0.50x0.35	J
RFLPF1608060Y08Q1C	470~787	0.65(25°C) 0.71(-40~+85°C)	26(1429~1501MHz) 30(1565~1607MHz) 35(1570~1580MHz) 18(1920~1980MHz)	2.0	50	1.60x0.85x0.65	A-3
RFLPF1608060Y18Q1C	698~960	0.60(698~830MHz) 0.70(830~900MHz) 0.75(900~915MHz) 0.90(915~960MHz)	30(1554~1830MHz) 35(2097~2745MHz)	1.6	50	1.60x0.85x0.65	A-3
RFLPF2012090Y2T	400~470	0.50(25°C) 0.65(-40~+85°C)	33(800~940MHz)	2.0	50	2.00x1.25x0.90	F
RFLPF2012090Y3T	500~700	0.65(25°C) 0.80(-40~+85°C)	33(1000~1400MHz)	2.0	50	2.00x1.25x0.90	F
RFLPF2012100Y0T	DC~500	0.70	9(824~960MHz) 25(1710~1990MHz) 25(2400~4000MHz)	2.0	50	2.00x1.25x0.95	B-2
RFLPF1005040F0T	1695~2200	0.60(25°C) 0.80(-40~+85°C)	20(3350~4360MHz) 45(5085~6540MHz)	2.0	50	1.00x0.50x0.50	G
RFLPF1608060F0T	600~2700	0.50	30(4800~8000MHz) 25(8500~12500MHz)	2.0	50	1.60x0.85x0.65	F

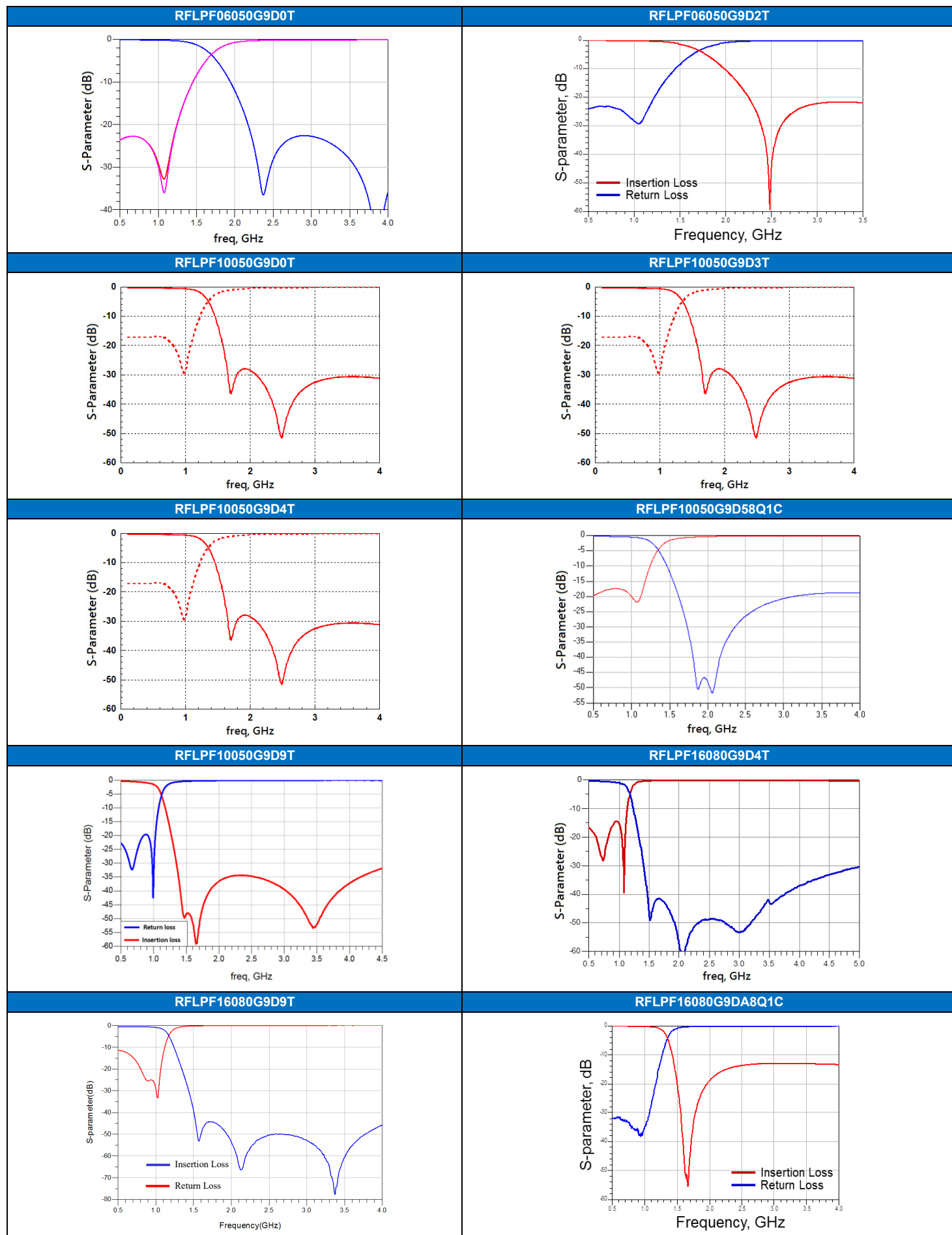
LTE BAND APPLICATION

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF1608060F18Q1C	673~2690	0.50	35(4950~6000MHz) 35(6000~7500MHz) 35(7500~8100MHz) 35(8100~10500MHz) 27(10500~12500MHz)	2.0	50	1.60x0.85x0.65	F
RFLPF1608060F6T	1700~2700	0.50(1700~2170MHz) 0.65(2170~2500MHz) 0.90(2500~2700MHz)	20(3400MHz) 22(3400~5400MHz) 25(5400~8100MHz)	2.0	50	1.60x0.85x0.60	E
RFLPF1608060F88Q1C	10~2700	0.5	30(4900~5950MHz)	2.0	50	1.60x0.85x0.65	E
RFLPF1608060FAT	673~2690	0.25(25°C) 0.35(-40~+85°C)	25(4905~5845MHz)	1.92	50	1.60x0.85x0.65	F
RFLPF1606F15T	1700~2700	0.50(1700~2170MHz) 0.65(2170~2500MHz) 0.90(2500~2700MHz)	13(3300~3420MHz) 23(3420~3800MHz) 23(3800~5000MHz) 25(5150~5960MHz)	2.0	50	1.60x0.85x0.60	E
RFLPF1606F16T	600~2700	0.85(25°C) 1.05(-40~+85°C)	38(3420~3570MHz) 27(5150~5960MHz)	2.0	50	1.60x0.85x0.60	E
RFLPF1606F22T	673~2690	0.50(25°C) 0.65(-40~+85°C)	35(4950~6000MHz) 35(6000~10500MHz) 27(10500~12750MHz)	2.0	50	1.60x0.85x0.60	F
RFLPF1606F36T	600~2700	0.30(600~960MHz) 0.40(1427~1700MHz) 0.50(1700~2170MHz) 0.70(2170~2500MHz) 0.85(2500~2700MHz)	20(3300MHz) 30(3400~4200MHz) 30(4400~5000MHz) 38(3420~3570MHz) 25(5150~5960MHz)	2.0	50	1.60x0.85x0.60	E
RFLPF2012100F18Q1C	1710~2170	1.30(25°C) 1.50(-40~+85°C)	15(2400~2500MHz) 25(3250~3350MHz) 25(3420~3570MHz) 23(3700~3820MHz) 23(3840~3960MHz) 23(4100~4600MHz) 25(4905~5845MHz) 23(5850~6400MHz) 20(6600~7350MHz)	1.56	50	2.00x1.25x1.00	B-2
RFLPF2012100F28Q1C	DC~2170	0.75(25°C) 0.85(-40~+85°C)	10(2400~2500MHz) 23(3250~3350MHz) 20(3420~3570MHz) 18(3700~3820MHz) 18(3840~3960MHz) 18(4100~4600MHz) 20(4905~5845MHz) 18(5850~6400MHz) 5(6600~7350MHz)	2.0	50	2.00x1.25x1.00	F
RFLPF1005040E1T	617~3800	0.38(617~2690MHz) 0.85(3300~3600MHz) 1.08(3600~3800MHz)	19.5(4950~6000MHz) 29.5(5150~5925MHz) 23.5(6000~7500MHz) 21.5(8100~10500MHz) 14.5(10500~12500MHz)	1.57	50	1.00x0.50x0.50	G
RFLPF1608060E0T	1400~2690	0.25(25°C) 0.30(-40~+85°C)	25(4905~5845MHz)	1.92	50	1.60x0.80x0.60	F
RFLPF16082G6W0T	2400~2690	0.6	26(4800~5390MHz) 23(7200~8085MHz)	2.0	50	1.60x0.80x0.60	A-2
RFLPF16082G5W0T	2300~2700	0.90(25°C) 1.00(-40~+85°C)	30(4600~5400MHz) 30(6900~8100MHz) 20(9200~10800MHz) 15(11500~13500MHz)	1.8	50	1.60x0.80x0.60	A-1
RFLPF16082G5W6T	2300~2700	0.55	40(4600~5400MHz) 25(6900~8100MHz)	1.7	50	1.60x0.80x0.60	A-1
RFLPF16082G5WM0T29	2300~2690	0.80 (typ.0.40)	25(4600~5400MHz) 25(6900~8070MHz)	2.0	50	1.60x0.80x0.60	A-1
RFLPF16083G5W7T	3300~3800	0.55	17(6600~7600MHz) 20(9900~11400MHz)	1.9	50	1.60x0.80x0.60	A-3
RFLPF2012090BM0T29	800~1000 1700~1910 2010~2025	0.5(800~1000MHz) 0.8(1700~1910MHz) 1.5(2010~2025MHz)	20(2300~3700MHz) 30(3700~4100MHz) 20(4100~6100MHz) 10(6100~8000MHz)	2.0	50	2.00x1.25x0.90	F

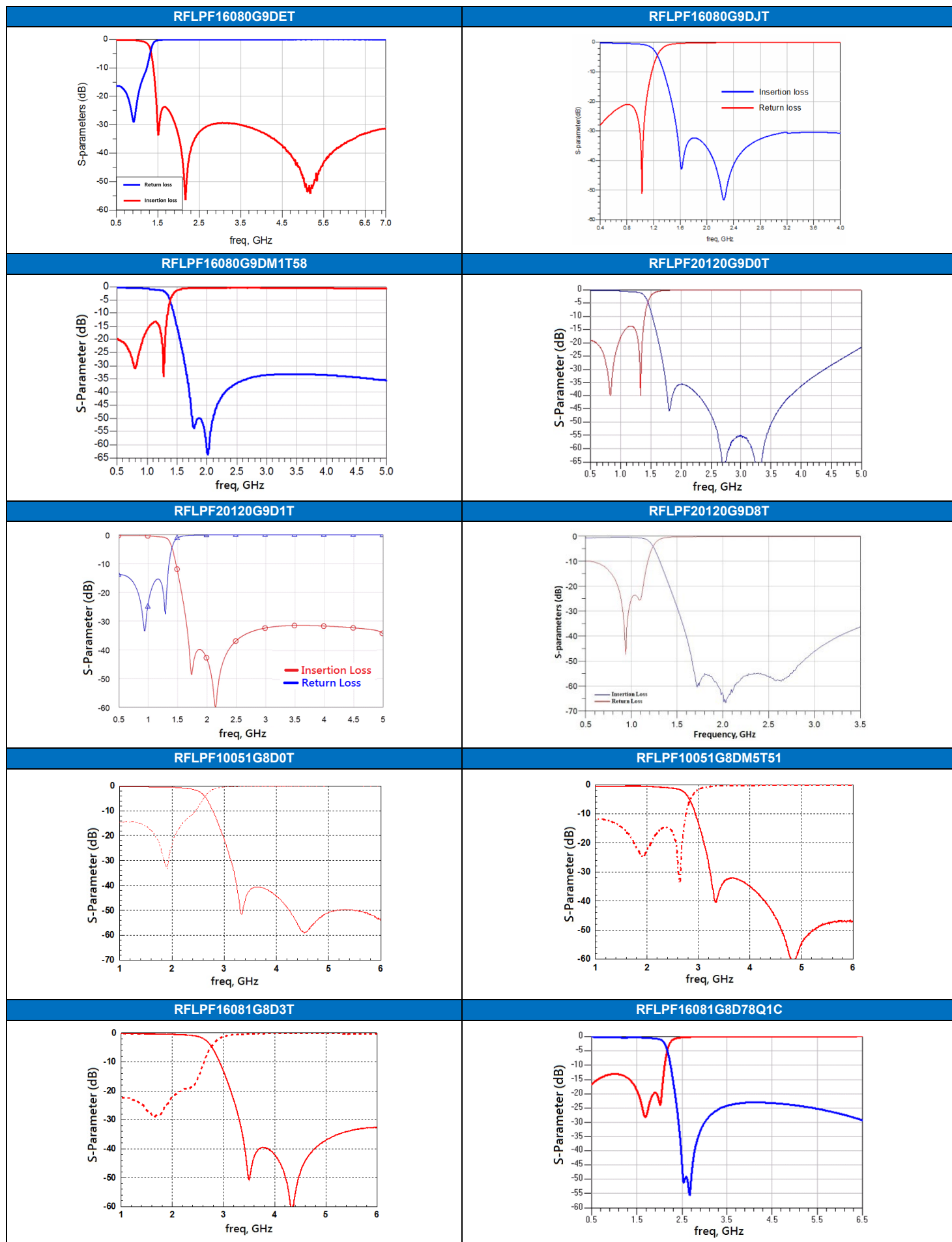
MoCA APPLICATION

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF3225180Y1T	54~870	2.5	35(975~1675MHz)	2.0	75	3.20x2.50x1.80	H
RFLPF3225100Q07B1U	5~1002	2.4(25°C) 2.6(-40~+85°C)	36(1125~1675MHz)	2.0	75	3.20x2.50x1.00	H
RFLPF3225100Q2T	5~1002	2.4(25°C) 2.6(-40~+85°C)	28(1125~1675MHz)	1.9	75	3.20x2.50x1.00	B-1
RFLPF3225200Q5T	5~1002	1.8(25°C) 2.05(-40~+85°C)	33(1125~1400MHz) 26(1400~1675MHz)	2.0	75	3.20x2.50x1.80	H
RFLPF3225200QFT	5~1218	2.3(25°C) 2.55(-40~+85°C)	20(1350~1400MHz) 31(1400~1675MHz)	2.0	75	3.20x2.50x1.80	H
RFLPF3220Y12T	5~1218	1.8(25°C) 2.0(-40~+85°C)	20(1350~1675MHz) 18(2400~2500MHz) 15(4900~5900MHz)	1.92	75	3.20x2.50x1.80	L

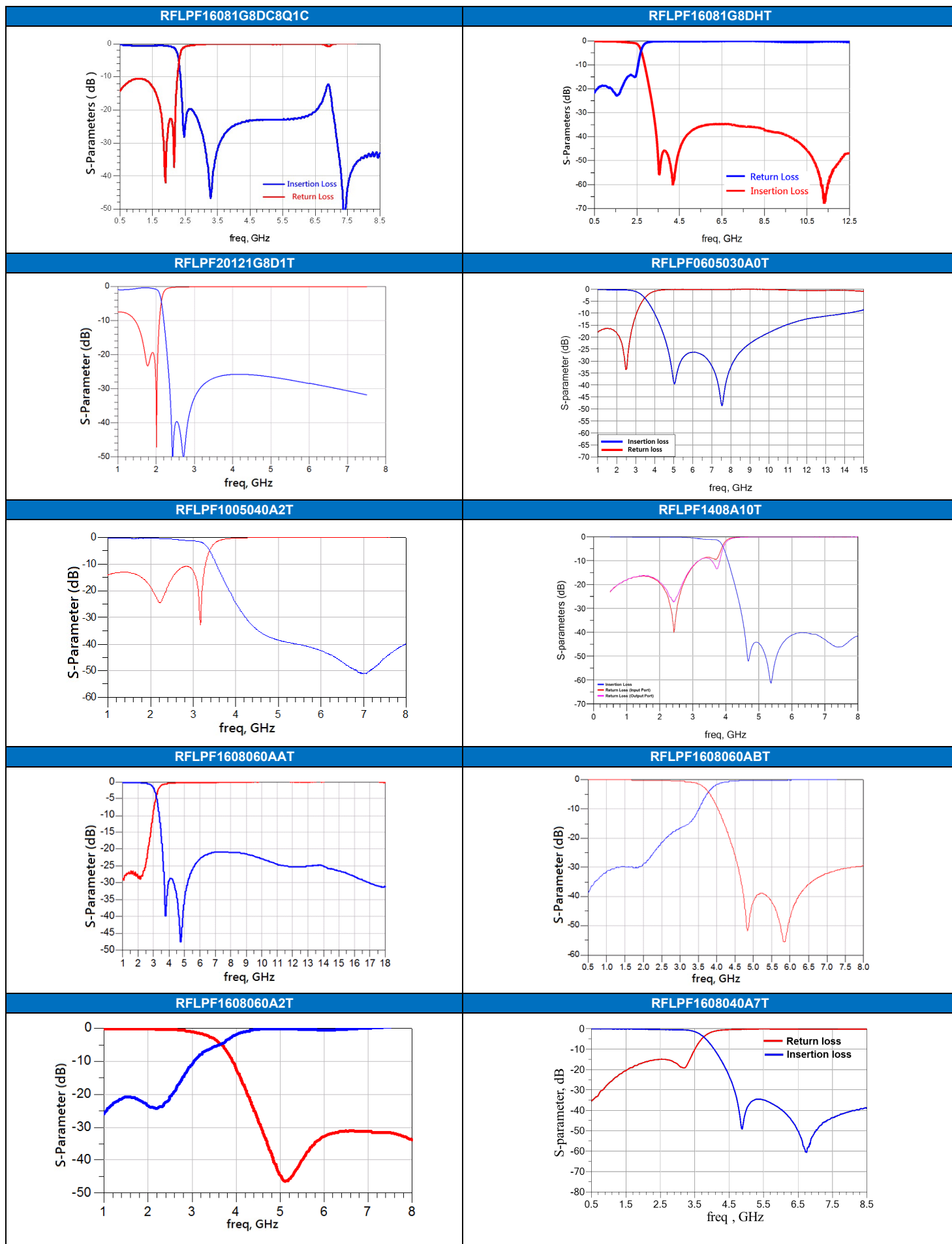
TYPICAL ELECTRICAL CHARACTERISTICS



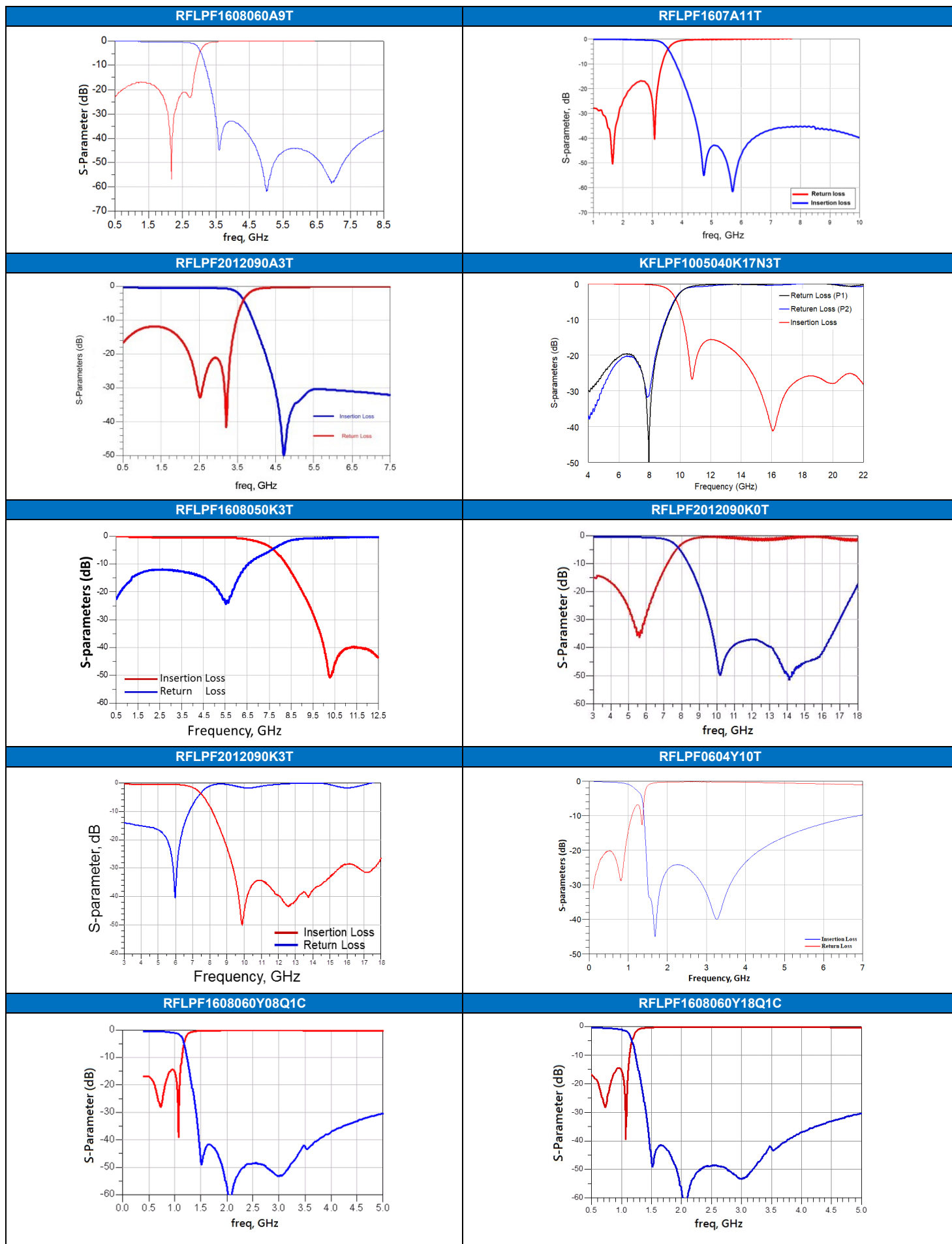
TYPICAL ELECTRICAL CHARACTERISTICS



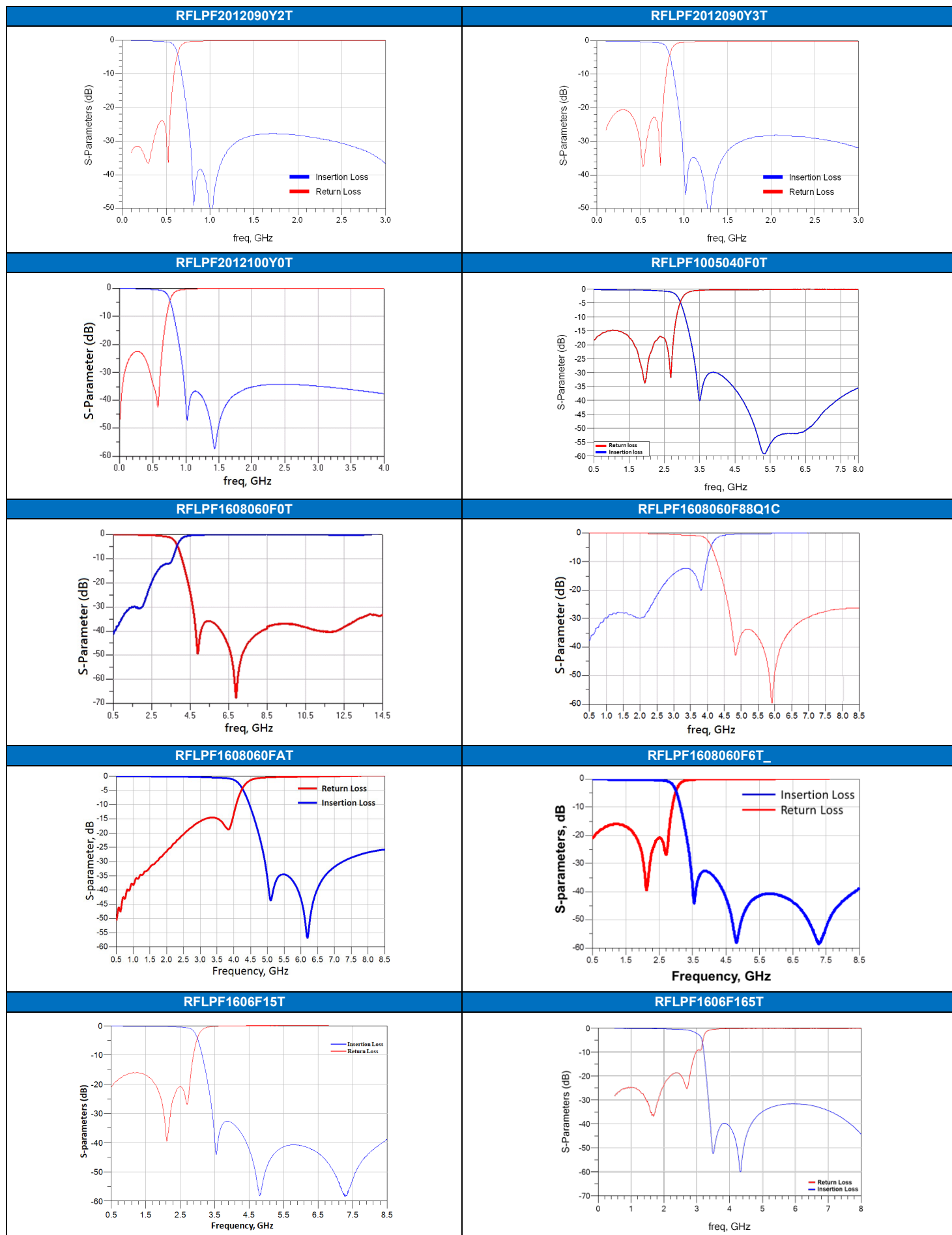
TYPICAL ELECTRICAL CHARACTERISTICS



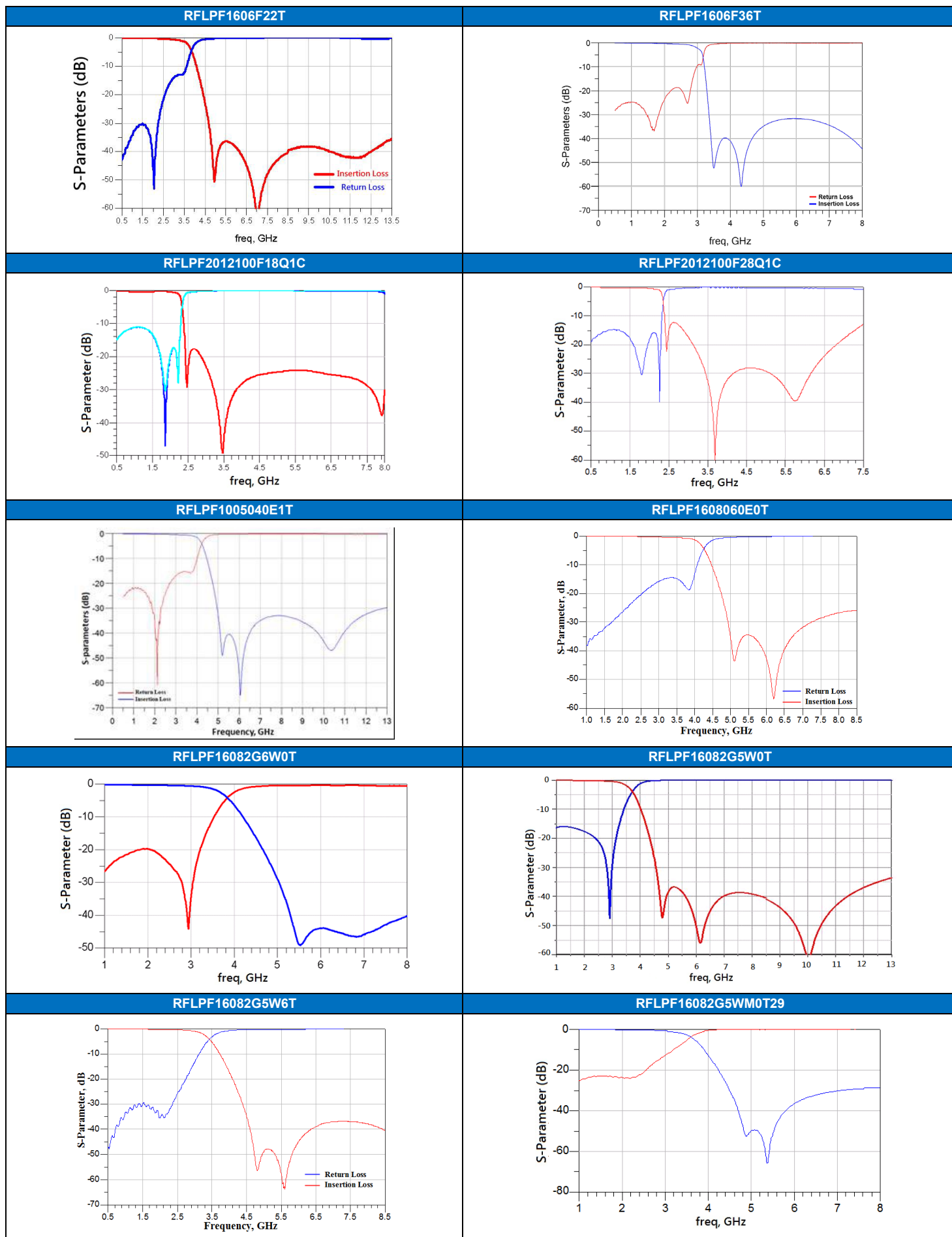
TYPICAL ELECTRICAL CHARACTERISTICS



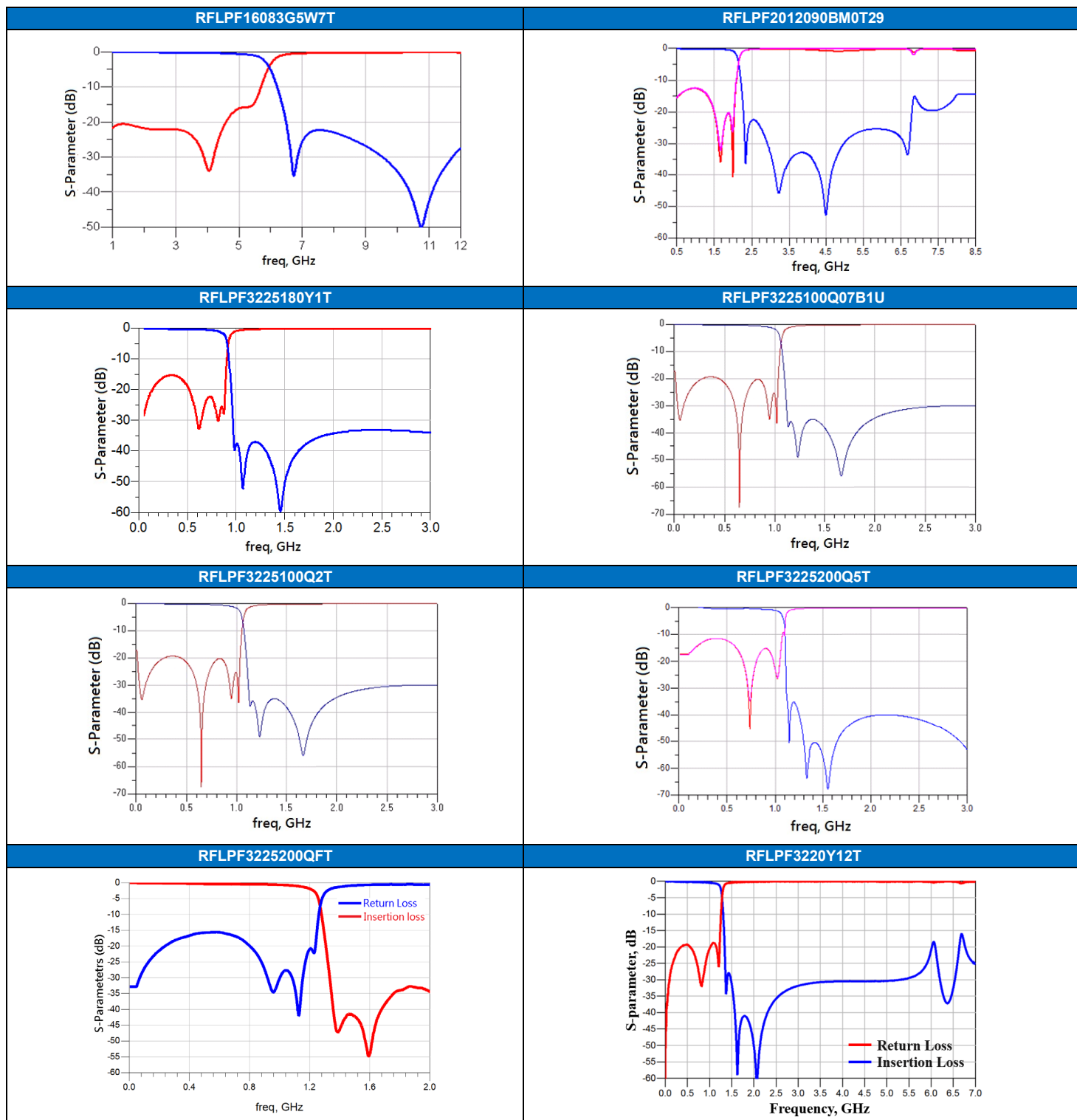
TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



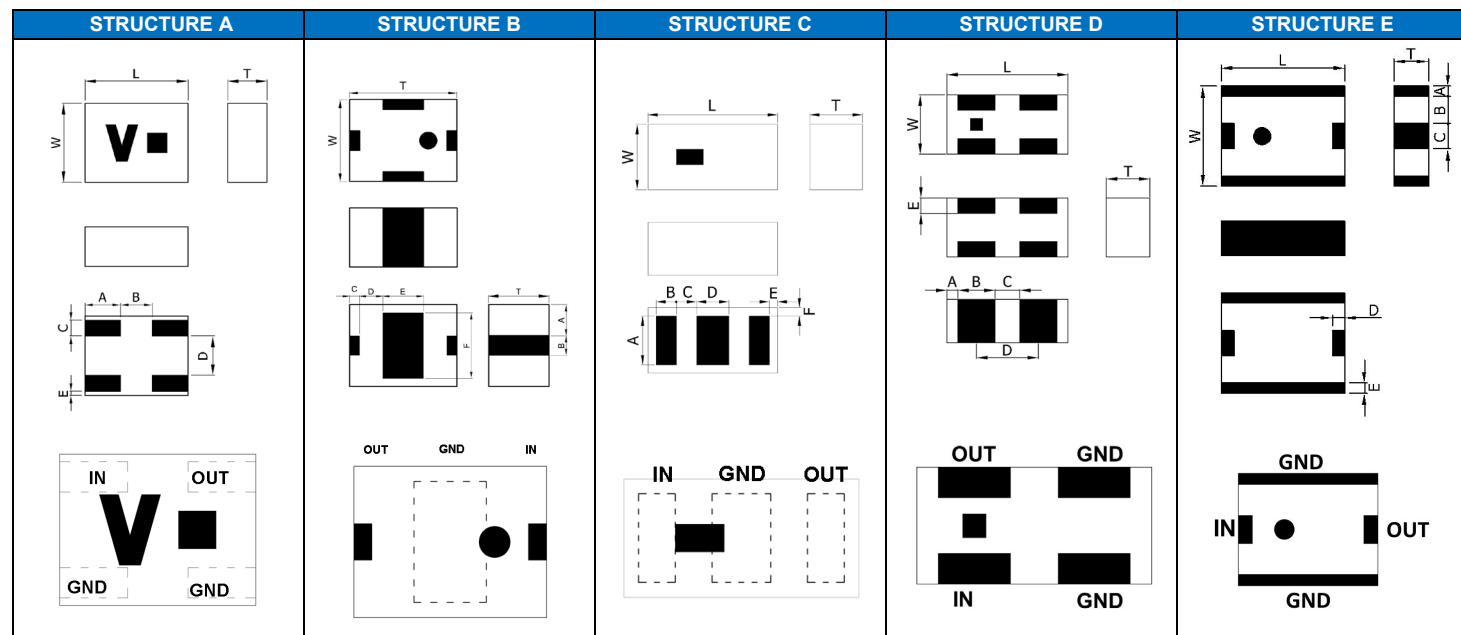
TYPICAL ELECTRICAL CHARACTERISTICS



- For more information, please contact with local sales representative
- All specifications are subject to change without notice

HIGH FREQUENCY MULTILAYER HIGH PASS FILTER

■ STRUCTURE AND PIN ASSOCIATED



■ STRUCTURE AND DIMENSION

Unit: mm

Structure/ Dimension	L	W	T	A	B	C	D	E	F
A	0.65 ± 0.10	0.50 ± 0.10	0.4 max.	0.225 ± 0.10	0.20 ± 0.05	0.10 ± 0.10	0.20 ± 0.05	0.05 ± 0.05	-
B	3.20 ± 0.20	2.50 ± 0.20	1.7 max.	0.95 ± 0.20	0.60 ± 0.20	0.30 ± 0.15	0.70 ± 0.15	1.20 ± 0.15	2.00 ± 0.15
C	1.60 ± 0.10	0.80 ± 0.10	0.65 max.	0.65 ± 0.10	0.25 ± 0.10	0.275 ± 0.10	0.40 ± 0.10	0.075 ± 0.05	0.075 ± 0.05
				0.55 ± 0.10	0.25 ± 0.10	0.23 ± 0.10	0.40 ± 0.10	0.12 ± 0.10	0.125 ± 0.10
D	1.00 ± 0.10	0.50 ± 0.10	0.42 max.	0.10 ± 0.10	0.30 ± 0.10	0.20 ± 0.10	0.50 ± 0.10	0.125 ± 0.10	-
E	2.50 ± 0.10	2.00 ± 0.10	1.00 ± 0.10	2.50±0.10	2.00±0.10	1.00±0.10	0.20±0.20	0.50±0.20	-

■ ELECTRICAL SPECIFICATION

2496 ~ 2690 MHz WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Size (mm)	Structure
RFHPF16082G5W1T	2496~2690	0.9max.(25°C) 1.2max.(-40~+85°C)	22(1710~2010MHz)	2.0	1.6 X 0.8 X 0.6	C
RFHPF16082G5W3T	2300~2690	1.45max.(25°C) 1.65max.(-40~+85°C)	20(1710~1980MHz)	2.0	1.6 X 0.8 X 0.6	C

5GHz WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Size (mm)	Structure
RFHPF0605040K0T	4900~5840	0.60max.(25°C) 0.65max.(-40~+85°C)	14(2400~2500MHz)	1.6	0.65 X 0.5 X 0.4	A
RFHPF0605040K3T	4900~6000	0.65max.(25°C) 0.75max.(-40~+85°C)	20(2400~2500MHz)	2.0	0.65 X 0.5 X 0.4	A
RFHPF1005040K0T	5150~5950	6.0(5150~5250MHz) 3.0(5250~5350MHz) 1.3(5500~5950MHz)	10(4800~4960MHz)	2.0	1.00 X 0.5 X 0.4	D
RFHPF2520100K0T	5150~7125	5.3(5150~5170MHz) 4.6(5170~5190MHz) 4.3(5190~5330MHz) 2.1(5490~7125MHz)	25(30~2700MHz) 25(3300~4200MHz) 25(4400~4800MHz) 20(4800~4900MHz)	2.3	2.50 X 2.0 X 1.0	E

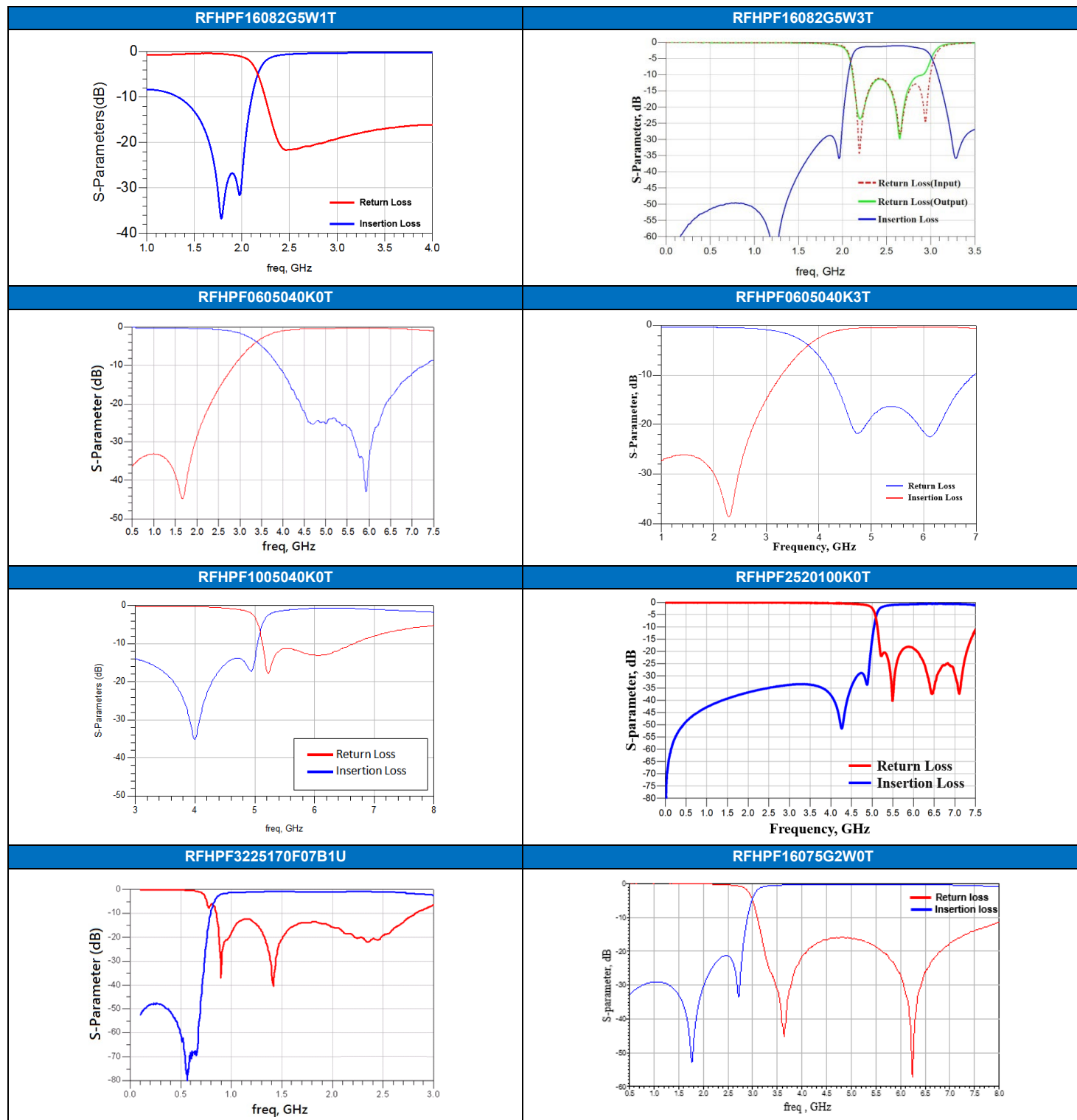
MoCA Application

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Size (mm)	Structure
RFHPF3225170F07B1U	950~2150	2.00max.(25°C) 2.2max.(-40~+85°C)	50(475~675MHz)	2.0	3.2 X 2.5 X 1.7	B

UWB Band Application

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Size (mm)	Structure
RFHPF16075G2W0T	3300~7250	0.8(3300~4200MHz) 0.8(4400~5000MHz) 0.8(5150~2925MHz) 0.8(5925~7250MHz)	25(450~960MHz) 20(1427~1710MHz) 20(1710~1910MHz) 20(1910~2200MHz) 20(2300~2400MHz) 20(2400~2500MHz) 20(2500~2690MHz)	2.0	1.6 X 0.8 X 0.6	C

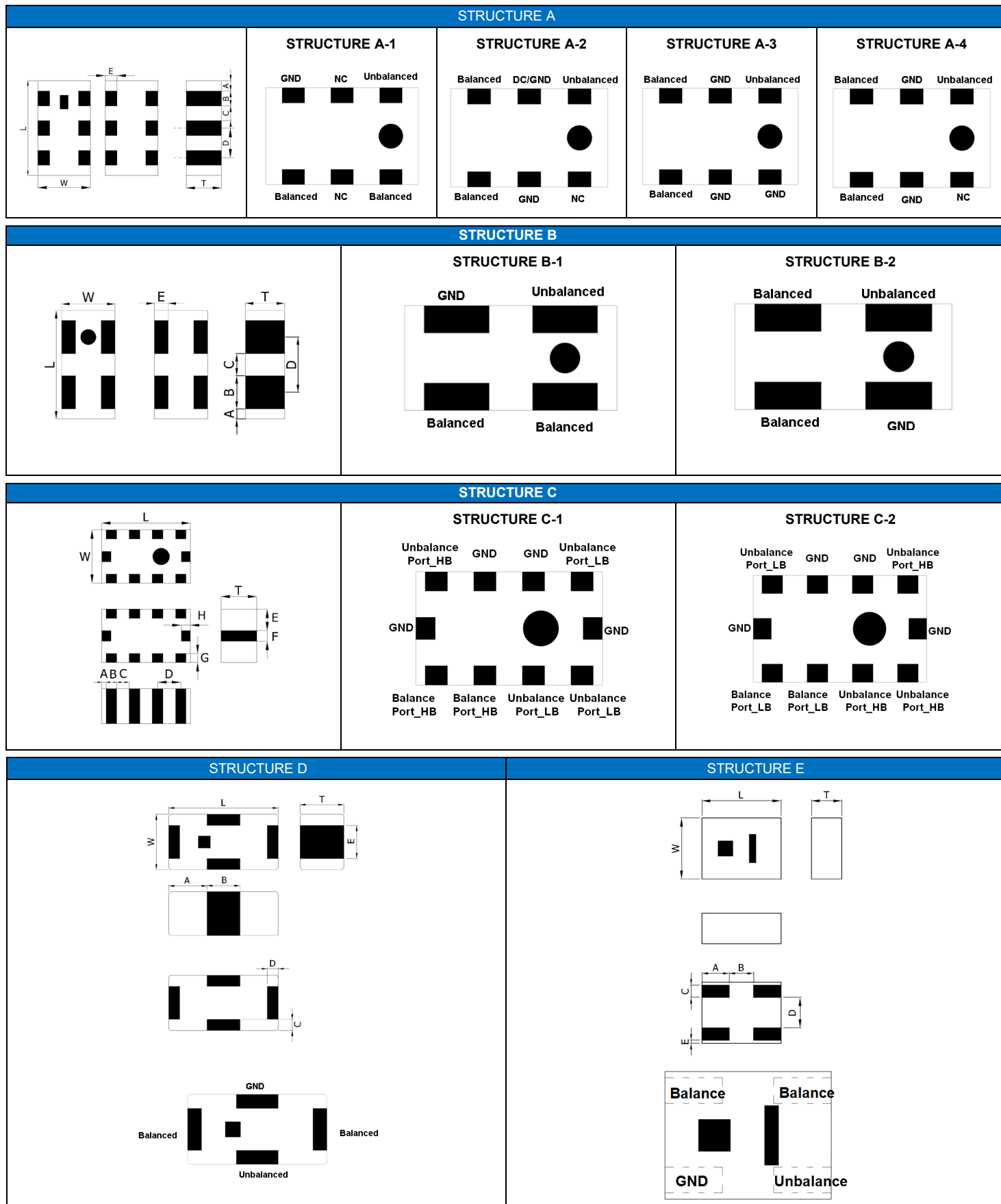
■ TYPICAL ELECTRICAL CHARACTERISTICS



- For more information, please contact with local sales representative
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BALUN TRANSFORMERS

■ STRUCTURE AND PIN ASSOCIATED



■ STRUCTURE AND DIMENSION

Unit: mm

Structure/ Dimension	L	W	T	A	B	C	D	E	F	G	H
A	1.60±0.10	0.85±0.10	0.70±0.10	0.20±0.10	0.20±0.10	0.30±0.10	0.50±0.05	0.50±0.05	-	-	-
	1.60±0.15	0.80±0.10	0.50±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-
		0.85±0.10	0.40 max.	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-
		0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-	
		0.85±0.15	0.70±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	-	-	-	-
	0.65±0.10										
	2.00±0.15	1.25±0.15	0.80±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	-	-	-	-
			0.85±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	-	-	-	-
			0.80±0.10	0.20±0.15	0.30±0.20	0.35±0.20	0.65±0.20	-	-	-	-
			0.95±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	-	-	-	-
B	1.00±0.10	0.50±0.10	0.37±0.10	0.10±0.10	0.30±0.10	0.20±0.10	0.50±0.10	0.125±0.10	-	-	-
	1.00±0.10	0.50±0.10	0.40±0.10	0.10±0.10	0.30±0.10	0.20±0.10	0.50±0.10	0.125±0.10	-	-	-
C	2.00±0.10	1.25±0.15	0.90±0.10	0.125±0.10	0.25±0.10	0.25±0.10	0.50±0.10	0.475±0.10	0.30±0.10	0.20±0.15	0.20±0.15
D	1.00±0.10	0.50±0.10	0.5 max.	0.35±0.10	0.30±0.10	0.15±0.10	0.15±0.10	0.30±0.10	-	-	-
E	0.65±0.10	0.50±0.10	0.40±0.10	0.20±0.05	0.20±0.05	0.025±0.025	0.10±0.05	0.25±0.05	0.025±0.025	-	-

■ ELECTRICAL SPECIFICATION

ISM Band 2.4GHz APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB) Min.	Insertion Loss (dB)	Amplitude Difference (dB) Max.	Phase Difference	Size(mm)	Structure
		Unbalance	Balance						
RFBLN1608050AM8T62	2400~2500	50	50	10	1.2	2.0	180± 10	1.60x0.80x0.50	A-2
RFBLN1608050AM0T63	2400~2500	50	50	10	1.0	1.0	180± 10	1.60x0.80x0.55	A-2
RFBLN1608060AC6T40	2400~2500	50	Conjugate match to TI CC26XX Chipset	10	1.6(25°C) 1.8(-40~+85°C)	2.3	180± 18	1.60x0.80x0.60	A-3
RGBLN1608070A5T	2400~2500	50	100	10	1.2	2.0	180± 10	1.60x0.80x0.70	A-2
RGBLN2012080A5T	2400~2500	50	50	12	1.0	1.0	180± 10	2.00x1.25x0.85	A-2
RFBLN2012090A1T	2400~2500	50	100	10	1.0	2.0	180± 10	2.00x1.25x0.95	A-2

ISM Band 5GHz APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB) Min	Insertion Loss (dB)	Amplitude Difference (dB) Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN1005040K5T	4900~5950	50	100	10	0.55(25°C) 0.75(-40~+85°C)	2.5	180± 10	1.00x0.50x0.40	B-2
RFBLN2012090K1T	4900~5900	50	100	10	1.2	2.0	180± 10	2.00x1.25x0.95	A-4

LTE Band APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)	Amplitude Difference (dB) Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN0605040YM9T16	729~821	50	100	10	0.55(25°C) 0.65(-40~+85°C)	2.0	180± 10	0.65x0.50x0.40	E
RFBLN06050G9D0T	729~960	50	100	15	0.85(25°C) 0.95(-40~+85°C)	4.8	180± 10	0.65x0.50x0.40	E
RFBLN16080G9D2T	699~960	50	100	10	1.05(25°C) 1.15(-40~+85°C)	2.5	180± 15	1.60x0.80x0.70	A-4
RFBLN20120G9D1T	824~894	50	50	10	1.4	1.0	180± 10	2.00x1.25x0.90	A-2
RFBLN20120G9D4T	880~960	50	50	10	1.3(25°C) 1.4(-40~+85°C)	1.0	180± 10	2.00x1.25x0.90	A-2
RFBLN20120G9D5T	880~960	50	100	10	1.1	1.0	180± 10	2.00x1.25x0.90	A-2
RFBLN20120G9D8T	800~1000	50	50	10	1.2	2.0	180± 10	2.00x1.25x0.90	A-2
RFBLN06051G8DM1T69	1805~1990	50	100	10	0.60(25°C) 0.65(-40~+85°C)	1.8	180± 10	0.65x0.50x0.40	E
RFBLN06051G8D1T	1805~2170	50	100	10	0.65(25°C) 0.70(-40~+85°C)	3.0	180± 15	0.65x0.50x0.40	E
RFBLN10051G9D1T	1805~1990	50	100	10	0.60(25°C) 0.70(-40~+85°C)	2.2	180± 12	1.00x0.50x0.40	B-2

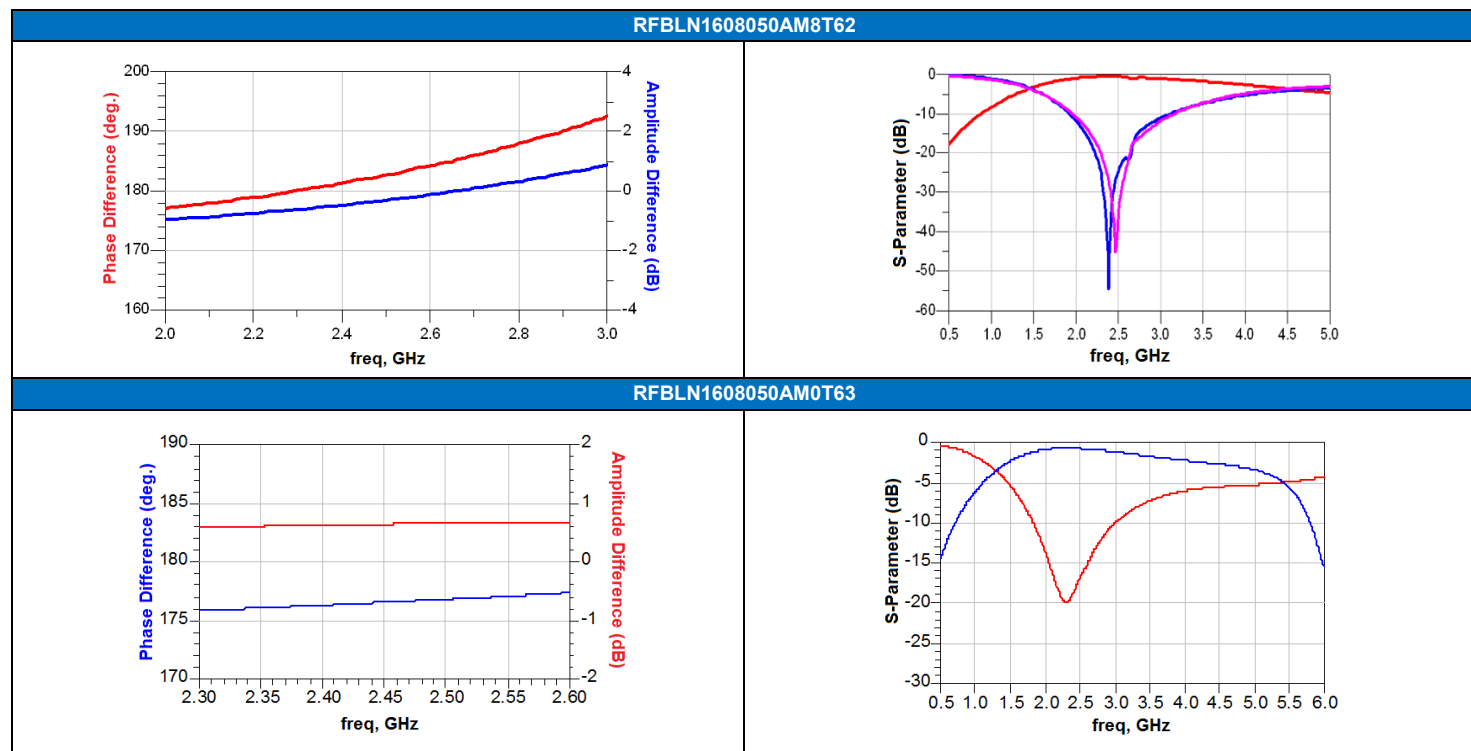
LTE Band APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)	Amplitude Difference (dB) Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN1005040F0T	1805~2170	50	100	10	0.70(25°C) 0.80(-40~+85°C)	1.2	180± 15	1.00x0.50x0.40	D
RFBLN1608070F48Q1C	673~2700	50	100	10	1.7(25°C) 2.0(-40~+85°C)	1.5	180± 17	1.60x0.80x0.70	A-4
RFBLN1608060FET	1710~2200	50	50	10	1.20(25°C) 1.40(-40~+85°C)	2.0	180± 10	1.60x0.80x0.60	A-2
RFBLN2012090E0T	1500~3000	50	100	10	1.0	2.0	180± 10	2.00x1.25x0.90	A-4
RFBLN06052G5WM9T16	2300~2690	50	100	10	0.55(25°C) 0.65(-40~+85°C)	2.5	180± 10	0.65x0.50x0.40	E
RFBLN16082G5W0T	2300~2700	50	100	10	1.1	2.0	180± 10	1.60x0.80x0.70	A-2
RFBLN16082G5W38Q1C	2300~2700	50	100	10	0.55(25°C) 0.65(-40~+85°C)	1.0	180± 10	1.60x0.80x0.40	A-4
RFBLN16082G5W4T	2300~2700	50	50	10	1.2	2.0	180± 10	1.60x0.80x0.50	A-2

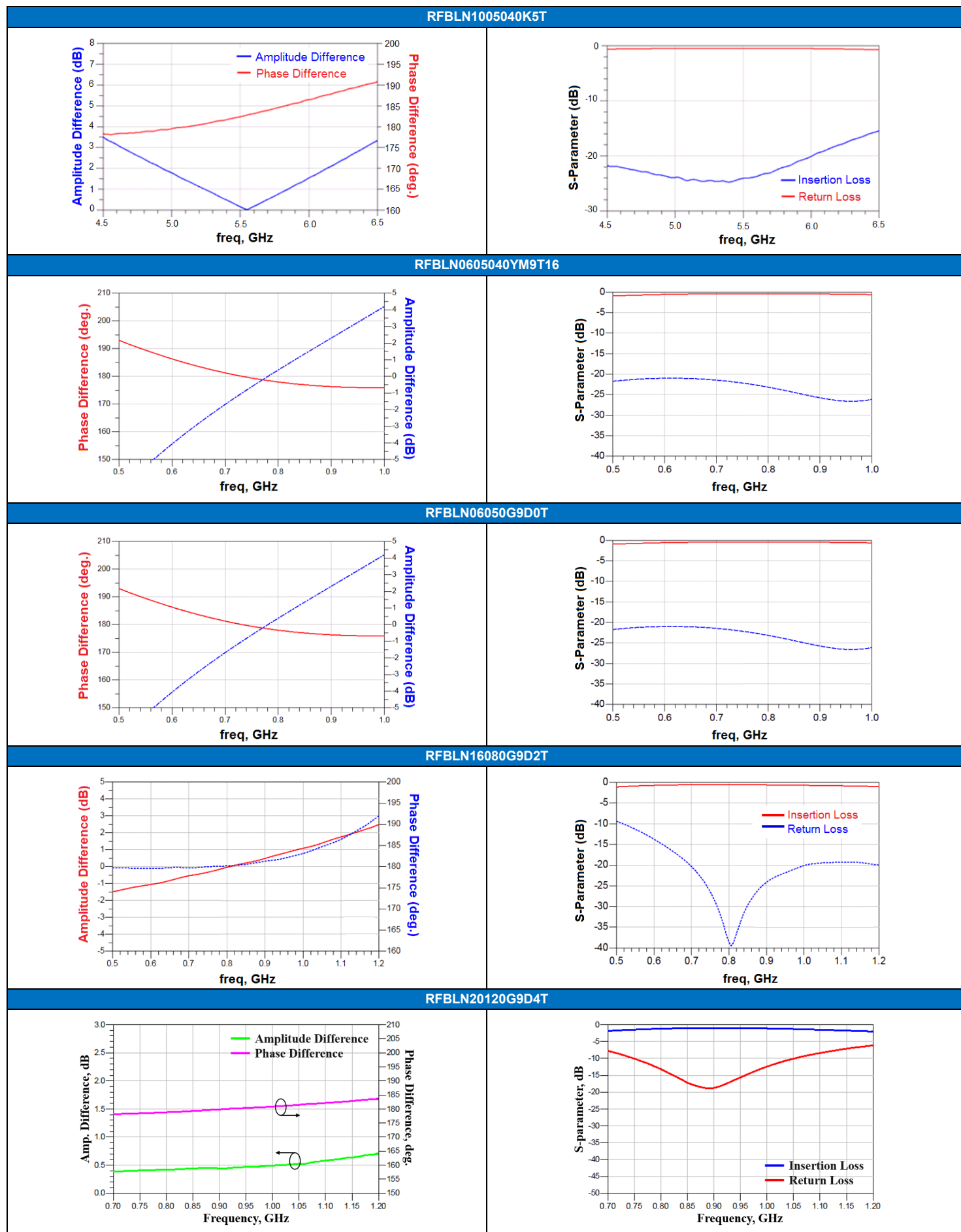
GSM 850/ GSM 900/ DCS1800/ PCS1900 APPLICATION

Part Number	Frequency Range (MHz)	Unbalance	Balance	Return Loss (dB) Min	Insertion Loss (dB)	Amplitude Difference (dB) Max	Attenuation (dB min.)	Phase Difference	Size(mm)	Structure
RFBLN2012090BM5T25	869~960	50	200	10	1.1	2.0	10(1738~1920MHz) 20(2400~2500MHz) 20(2607~2880MHz)	180± 10	2.00x1.25x0.95	C-1
	1805~2025	50	200	10	1.8	2.0	15(2400~2500MHz) 20(3610~3980MHz) 20(5415~5970MHz)	180± 15		
RFBLN2012090BS0T53	869~960	50	200	10	1.1(25°C) 1.3(-40~+85°C)	2.0	10(1738~1920MHz) 20(2400~2500MHz) 20(2607~2880MHz)	180± 15	2.00x1.25x0.95	C-1
	1805~1990	50	200	10	1.6(25°C) 1.8(-40~+85°C)	2.0	15(2400~2500MHz) 15(3610~3980MHz) 20(5415~5970MHz)	180± 15		
RFBLN2012090BS0T50	869~960	50	200	10	1.1(25°C) 1.3(-40~+85°C)	2.0	10(1738~1920MHz) 20(2400~2500MHz) 20(2607~2880MHz)	180± 15	2.00x1.25x0.95	C-2
	1805~2025	50	200	10	1.8(25°C) 2.0(-40~+85°C)	2.0	15(2400~2500MHz) 15(3610~3980MHz) 20(5415~5970MHz)	180± 15		

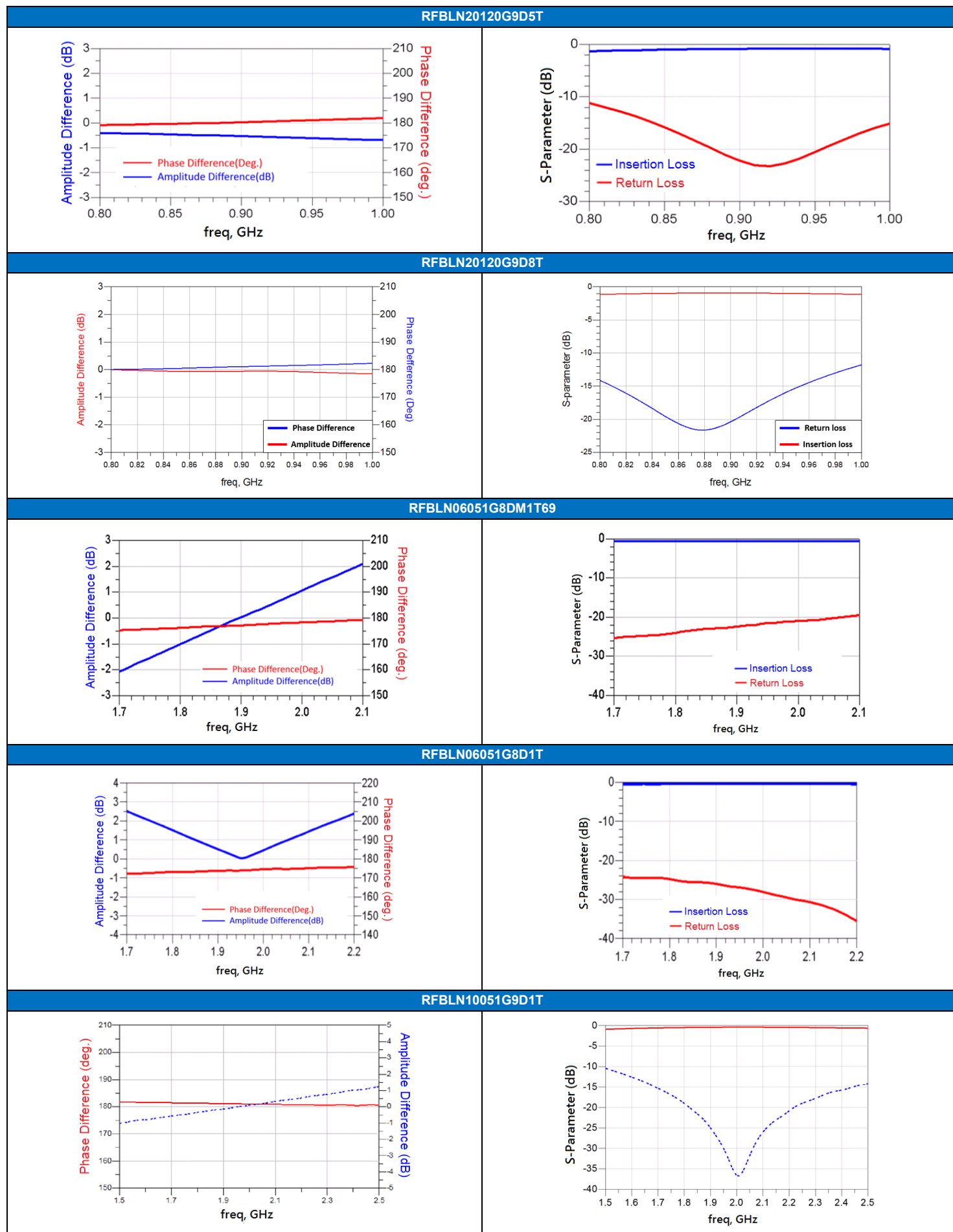
■ TYPICAL ELECTRICAL CHARACTERISTICS



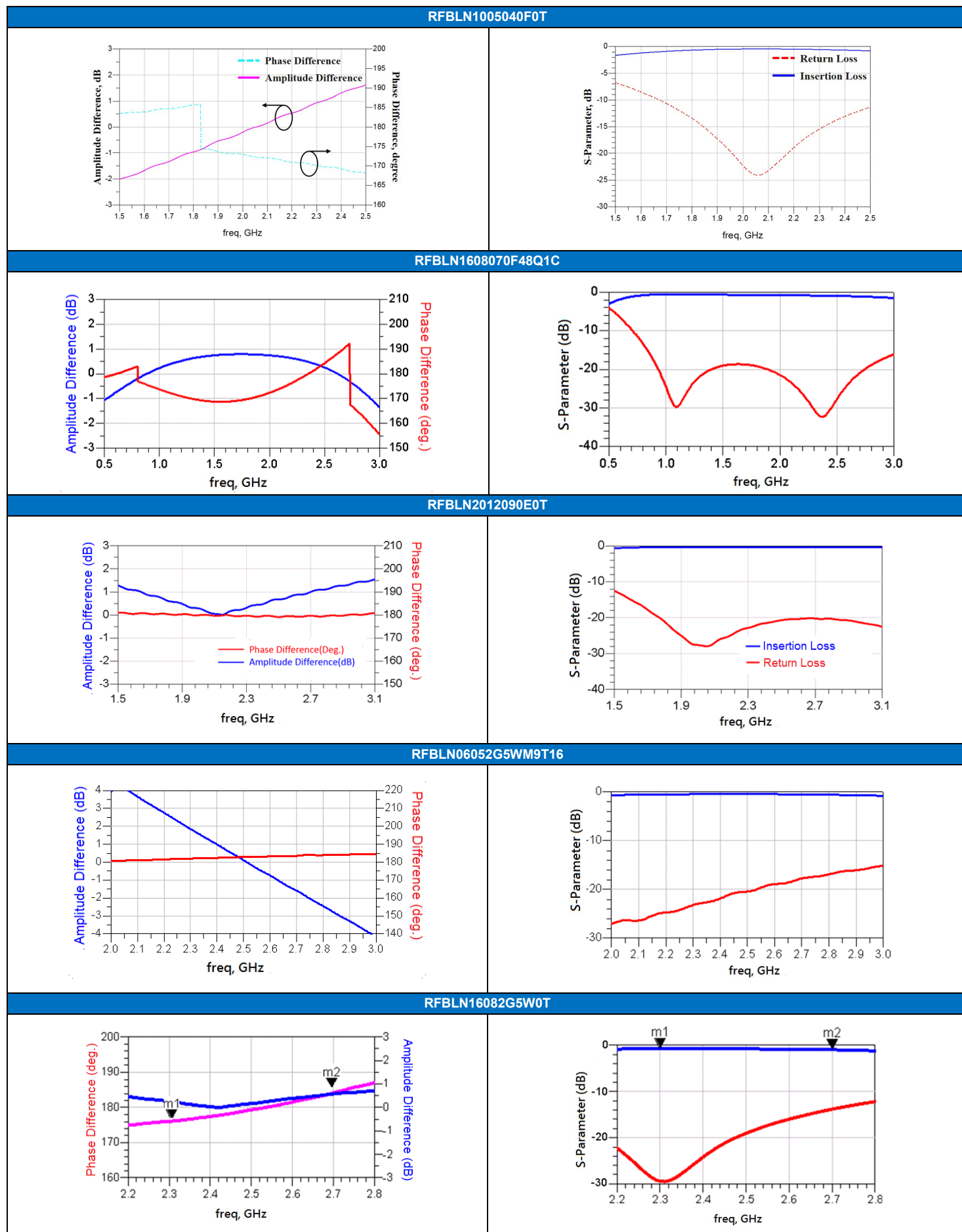
TYPICAL ELECTRICAL CHARACTERISTICS



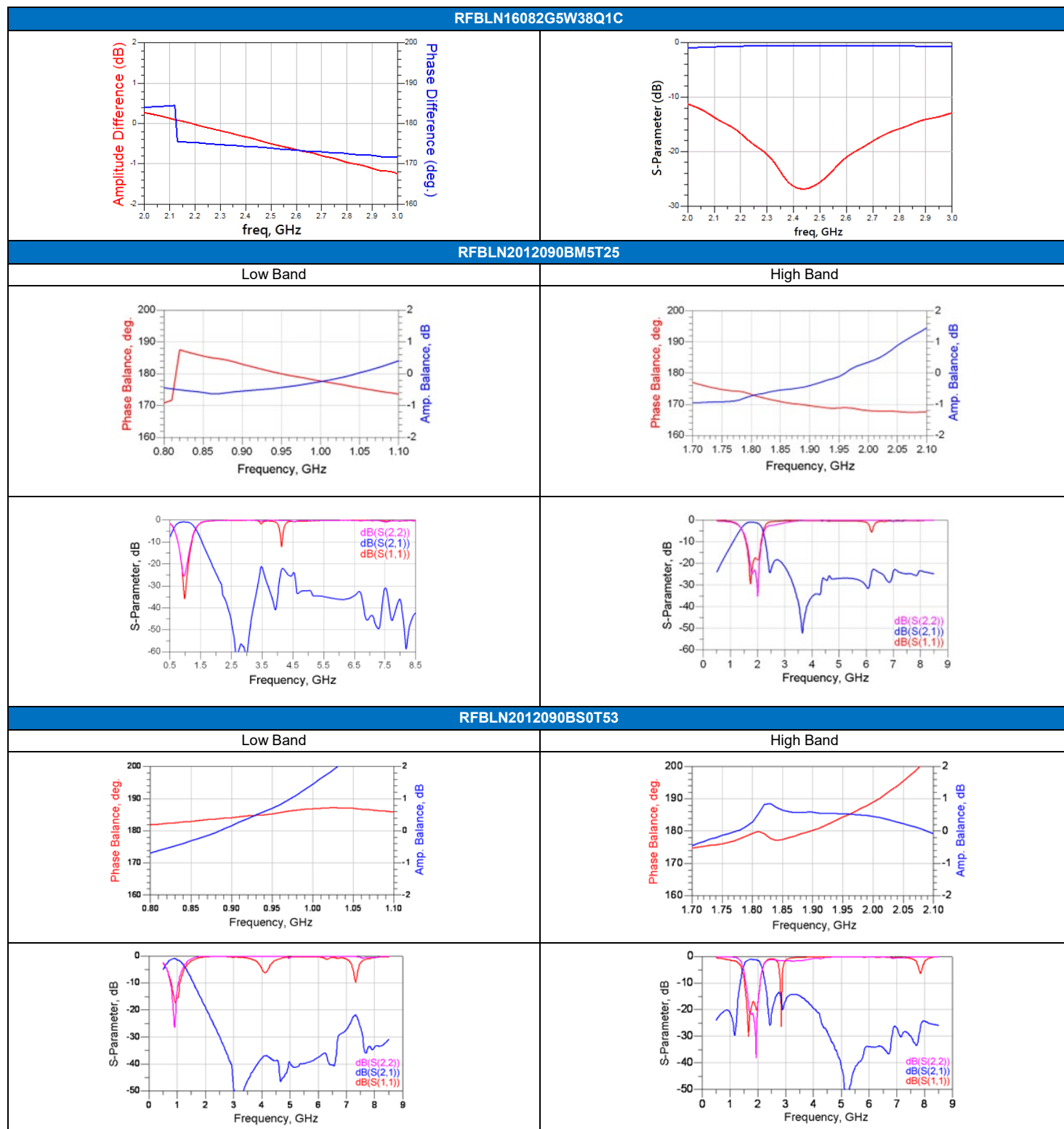
TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



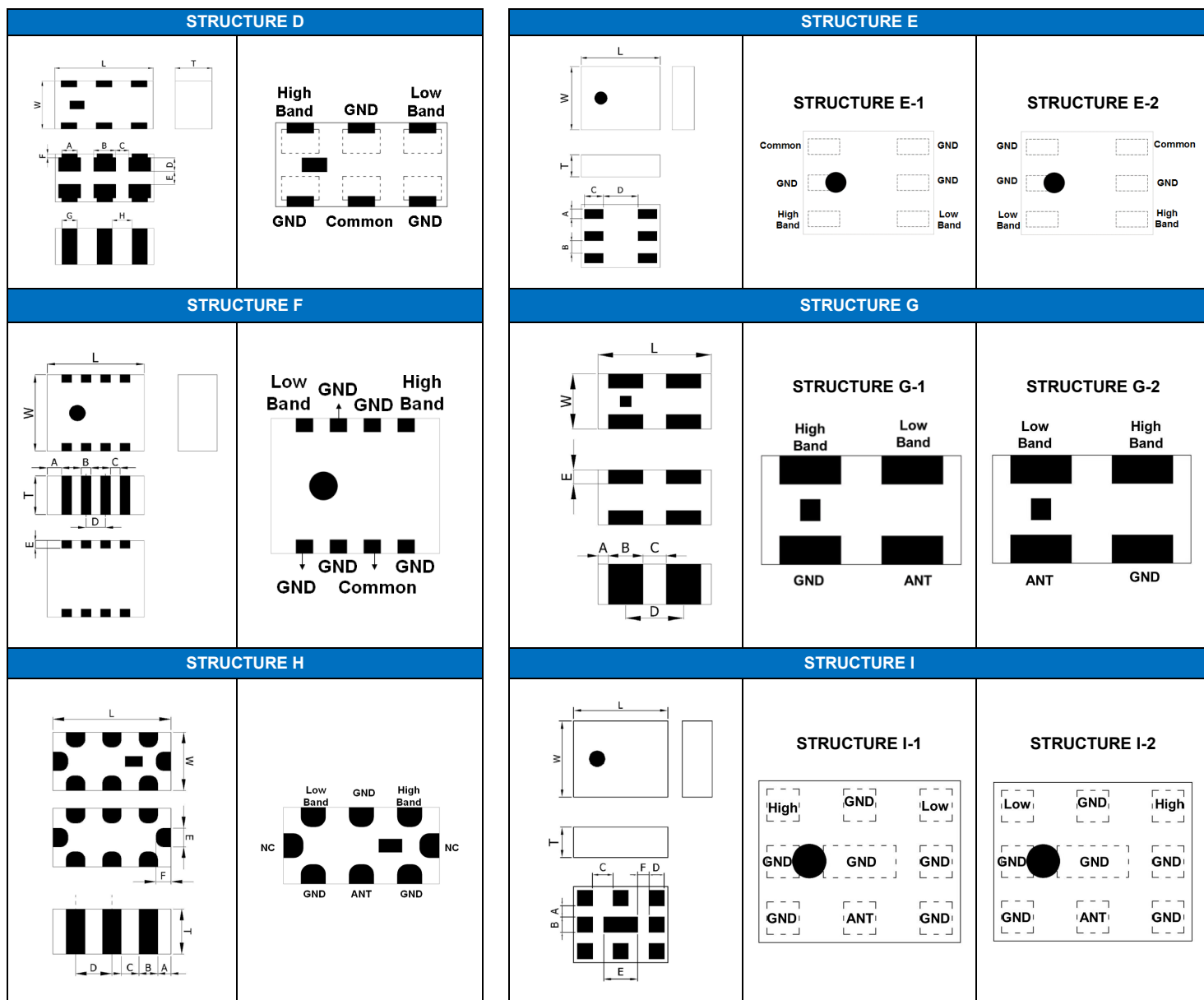
- For more information, please contact with local sales representative
- All specifications are subject to change without notice

DIPLEXER

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A				
	STRUCTURE A-1 GND Common GND High Band GND Low Band	STRUCTURE A-2 GND Common GND Low Band GND High Band	STRUCTURE A-3 Low Band GND High Band GND Common GND	STRUCTURE A-4 High Band GND Low Band GND Common GND
STRUCTURE B				
	STRUCTURE B-1 GND High Band Common Low Band	STRUCTURE B-2 GND Low Band Common High Band	STRUCTURE B-3 Common Low Band GND High Band	
STRUCTURE C				
	STRUCTURE C-1 Low Band GND High Band GND Common GND	STRUCTURE C-2 High Band GND Low Band GND Common GND	STRUCTURE C-3 GND Common GND High Band GND Low Band	STRUCTURE C-4 GND Common GND Low Band GND High Band

■ STRUCTURE AND PIN ASSOCIATED



■ STRUCTURE AND DIMENSION

Unit: mm

Structure/ Dimension	L	W	T	A	B	C	D	E	F
A	1.60±0.15	0.80±0.15	0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
	2.00±0.10	1.25±0.20	0.55±0.15	0.20±0.15	0.30±0.15	0.35±0.15	0.65±0.15	0.20±0.10	-
	2.00±0.15	1.25±0.15	0.95±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	-	-
B	1.60±0.15	0.80±0.15	0.60±0.10	0.65±0.15	0.30±0.15	0.20±0.15	0.20±0.15	0.25±0.15	0.30±0.15
C	1.60±0.15	0.80±0.15	0.70±0.10	0.35±0.05	0.22±0.05	0.57±0.05	0.225±0.05	0.22±0.05	-
	2.00±0.15	1.25±0.15	0.70±0.10	0.35±0.10	0.30±0.10	0.65±0.10	0.60±0.10	0.275±0.10	-
	2.50±0.15	2.00±0.15	0.80±0.15	0.30±0.15	0.35±0.15	0.65±0.15	0.75±0.15	0.525±0.15	-
D	1.60±0.15	0.80±0.15	0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
E	2.50±0.15	2.00±0.15	0.70±0.10	0.30±0.10	0.40±0.10	0.60±0.10	1.10±0.10	-	-
F	2.50±0.15	2.00±0.15	1.0max.	0.375±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
G	1.00±0.10	0.50±0.10	0.40max.	0.10±0.10	0.30±0.10	0.20±0.10	0.50±0.10	0.125±0.10	-
H	1.60±0.15	0.80±0.15	0.60±0.10	0.65±0.15	0.30±0.15	0.20±0.15	0.20±0.15	0.25±0.15	0.30±0.15
I	2.50±0.15	2.00±0.15	0.65±0.10	0.30±0.10	0.40±0.10	0.55±0.10	0.40±0.10	0.90±0.10	0.30±0.10

■ ELECTRICAL SPECIFICATION

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1005040L38Q1C	2400~2500	50	0.5(25℃) 0.7(-40~+85℃)	23(4800~6000MHz) 23(7200~7500MHz)	10	-	1.00x0.50x0.40	G-2
	5150~5850	50	0.8(25℃) 1.0(-40~+85℃)	23(1545~1610MHz) 32(2400~2500MHz) 23(2500~2690MHz) 20(10300~11700MHz)				
RFDIP1005040L58Q1C	2400~2500	50	0.5(25℃) 0.7(-40~+85℃)	23(4800~6000MHz) 23(7200~7500MHz)	10	-	1.00x0.50x0.40	G-1
	4900~5950	50	0.8(25℃) 1.0(-40~+85℃)	25(30~2400MHz) 27(2400~2500MHz) 23(2500~2690MHz) 20(98000~11900MHz)				
RFDIP1004L10AT	2400~2500	50	0.5(25℃) 0.6(-40~+85℃)	25(4800~6000MHz) 23(7200~7500MHz)	10	-	1.00x0.50x0.40	G-1
	4900~5950	50	0.8(25℃) 1.0(-40~+85℃)	27(30~2400MHz) 30(2400~2500MHz) 24(2500~2690MHz) 20(98000~11900MHz)				
RFDIP1004LA10T	1164~1610 2400~2500 2500~2690	50	0.45 0.65 0.80	15(4800~6000MHz) 15(5150~7125MHz) 20(7200~7500MHz)	10	24(2400~2500MHz) 16(5150~7125MHz) 15.5(5950~6245MHz) 16.5(6245~7125MHz)	1.00x0.50x0.40	G-2
	5150~5950 5950~6245 6245~7125	50	0.95	24(500~2400MHz) 26(2400~2500MHz) 19(2500~2690MHz) 9(10300~11900MHz) 13.5(11900~12490MHz) 11.5(12490~14250MHz) 8(15510~21375MHz)				
RFDIP1004LB10T	1164~1610 2400~2500 2500~2690	50	0.45 0.65 0.80	15(4800~6000MHz) 15(5150~7125MHz) 20(7200~7500MHz)	10	24(2400~2500MHz) 16(5150~7125MHz) 15.5(5950~6245MHz) 16.5(6245~7125MHz)	1.00x0.50x0.40	G-1
	5150~5950 5950~6245 6245~7125	50	0.95	24(500~2400MHz) 26(2400~2500MHz) 19(2500~2690MHz) 9(10300~11900MHz) 13.5(11900~12490MHz) 11.5(12490~14250MHz) 8(15510~21375MHz)				
RFDIP1608060LCT	2400~2500	50	0.6	20(4800~5000MHz) 20(7200~7500MHz)	10	28(30~2700 MHz) 26(4900~5950 MHz)	1.60x0.80x0.60	A-4
	4900~5900	50	1.4	28(30~2700MHz) 10(9800~11900MHz)				
RFDIP1608060LET	2400~2500	50	0.6	18(4800~5000MHz) 18(7200~7500MHz)	10	-	1.60x0.80x0.60	A-1
	4900~5900	50	1.4	20(3700~3900MHz) 20(1800~2500MHz) 10(9800~11800MHz))				
RFDIP1608060LFT	2400~2500	50	0.6	18(4800~5000MHz) 18(7200~7500MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5900	50	1.4	20(3700~3900MHz) 20(1800~2500MHz) 10(9800~11800MHz)				
RFDIP1608060LVT	2400~2500	50	0.6	-	10	32 (30~2700 MHz) 28(4900~5950 MHz)	1.60x0.80x0.60	A-4
	4900~5950	50	0.8	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP1608060LY8Q1C	2400~2496	50	0.5	35(4800~5000MHz) 15(7200~7500MHz)	12	-	1.60x0.80x0.60	A-3
	5150~5950	50	1.0	30(70~2000MHz) 30(2400~2690MHz) 12(7250~7800MHz) 25(10300~12000MHz) 10(15000~18000MHz)				

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP160806BLM6T25	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-1
	4900~5950	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170 MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)		25(4800~5000 MHz)		
RFDIP160806ALM6T30	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5950	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)		25(4800~5000 MHz)		
RFDIP1608060LM0T60	2400~2500	50	0.75(25°C) 0.95(-40~+85°C)	20(4800~5000MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5950	50	1.0(25°C) 1.3(-40~+85°C)	20(1800~2500MHz) 20(9800~11800MHz)				
RFDIP160806BLM6T68	2400~2500	50	0.50(25°C) 0.65(-40~+85°C)	21(4800~5000MHz) 21(5000~5950MHz) 25(7200~7500MHz)	10	32(2400~2500MHz) 25(4900~6000MHz)	10	A-2
	4900~5950	50	0.60(25°C) 0.75(-40~+85°C)	27(824~2170MHz) 30(2400~2500MHz) 20(9800~11900MHz)				
RFDIP1608060LS3T55	2400~2500	50	0.60(25°C) 0.65(-40~+85°C)	32(4800~4992MHz) 24(7200~7488MHz)	10	32(30~2700MHz) 28(4900~5950MHz)	1.60x0.80x0.60	A-4
	4900~5950	50	0.70(25°C) 0.80(-40~+85°C)	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP160806ELM6T63	2400~2500	50	0.45(25°C) 0.55(-40~+85°C)	21(4800~5000MHz) 23(5000~5950MHz) 30(7200~7500MHz)	10	32(2400~2500MHz) 25(4900~6000MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	0.60(25°C) 0.80(-40~+85°C)	26(824~2170MHz) 30(2400~2500MHz) 32(9800~11900MHz) 15(15500~17500MHz)				
RFDIP1607ALM9T21	2400~2500	50	0.75(25°C) 0.85(-40~+85°C)	8(30~1000MHz) 30(4800~7125MHz) 30(7200~7500MHz) 15(7700~7950MHz) 15(7500~12000MHz)	13	40(2400~2500MHz) 25(4800~5000MHz) 10(15450~21375MHz)	1.60x0.80x0.60	A-1
	5150~7125	50	1.25(25°C) 1.45(-40~+85°C)	15(100~2300MHz) 40(2400~2500MHz) 15(2700~3500MHz) 25(10300~14250MHz) 15(15450~21375MHz)				
RFDIP1607ELM9T21	2400~2500	50	0.85(25°C) 0.95(-40~+85°C)	15(30~1000MHz) 30(4800~7125MHz) 30(7200~7500MHz) 15(7700~7950MHz) 15(7500~12000MHz)	13	40(2400~2500MHz) 25(4800~5000MHz) 10(15450~21375MHz)	1.60x0.80x0.60	A-1
	5150~7125	50	1.20(25°C) 1.45(-40~+85°C)	15(100~2300MHz) 40(2400~2500MHz) 15(2700~3500MHz) 25(10300~14250MHz) 15(15450~21375MHz)				
RFDIP1606ELM9T20	2400~2500	50	0.7(25°C) 0.9(-40~+85°C)	27(4800~5000MHz) 23(5000~5950MHz) 32(7200~7500MHz)	10	28(2400~2500MHz) 25(4900~5950MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	1.0(25°C) 1.2(-40~+85°C)	22(824~2170MHz) 28(24000~2500MHz) 28(9800~11900MHz) 15(15500~17500MHz)				

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1607CLM9T22	2400~2500	50	1.2(25°C) 1.4(-40~+85°C)	10(1200MHz) 35(4800~5000MHz) 35(5150~7125MHz) 35(7200~7500MHz)	10	38(2400~2500MHz) 35(5150~7125MHz)	1.60x0.80x0.60	A-1
	5150~7125	50	1.4(25°C) 1.6(-40~+85°C)	38(2400~2500MHz) 33(10300~10400MHz) 30(10400~14250MHz) 25(15450~21375MHz)				
RFDIP1607ELM9T33	2400~2500	50	0.80(25°C) 0.95(-40~+85°C)	18(30~1000MHz) 40(4800~4900MHz) 40(4900~5000MHz) 30(5000~7125MHz) 30(7200~7500MHz) 20(7500~12000MHz)	11	30(2400~2500MHz) 30(4800~5150MHz) 30(5150~5950MHz) 28(5950~6300MHz) 15(11900~14250MHz) 15(15000~18000MHz)	1.60x0.80x0.60	A-2
	5150~7125	50	1.0(25°C) 1.2(-40~+85°C)	28(70~1000MHz) 20(1000~2400MHz) 30(2400~2500MHz) 30(9800~10200MHz) 35(10300~12700MHz) 25(14700~18900MHz)				
RFDIP1607NLM9T21	2400~2500	50	0.85(25°C) 0.95(-40~+85°C)	15(30~1000MHz) 30(4800~7125MHz) 30(7200~7500MHz) 15(7700~7950MHz) 15(7500~12000MHz)	13	40(2400~2500MHz) 25(4800~5000MHz) 10(15450~21375MHz)	1.60x0.80x0.60	A-1
	5150~7125	50	1.20(25°C) 1.45(-40~+85°C)	15(100~2300MHz) 40(2400~2500MHz) 15(2700~3500MHz) 25(10300~14250MHz) 15(15450~21375MHz)				
RFDIP1607CLM6T39	2400~2500	50	1.14	17.6(1164~1300MHz) 22.8(1559~1601MHz) 23.1(3600~4000MHz) 31.7(4800~7100MHz) 28.8(7200~7500MHz) 42.9(9600~10000MHz)	14.6	50.7(2400~2500MHz) 32.2(4800~7100MHz)	1.60x0.80x0.65	C-3
	5150~5950 5950~7125	50	1.27 1.75	55.7(824~849MHz) 47.2(1164~1600MHz) 47.2(1601~2400MHz) 52.9(2400~2500MHz) 46.8(2501~3299MHz) 31.1(3300~4200MHz) 1.5(4400~4800MHz) 7.5(7680~8000MHz) 26.2(8288~9400MHz) 30.2(9400~14250MHz) 26.7(14700~21375MHz)	11.5			
RFDIP1607CLM9T02	2400~2500	50	1.30	10(1200MHz) 35(4800~5000MHz) 35(5150~7125MHz) 35(7200~7500MHz) 20(10300~14250MHz) 5(15450~21375MHz)	13	25(2400~2500MHz) 35(4800~5000MHz) 35(5150~7125MHz) 35(7200~7500MHz) 20(10300~14250MHz) 15(15450~21375MHz)	1.60x0.80x0.65	C-3
	5150~5875 5875~7125	50	1.10	25(2400~2500MHz) 30(10300~11900MHz) 30(11900~14250MHz) 25(15450~17850MHz) 15(17850~21375MHz)	12			
RFDIP1607CLM9T27	2400~2500	50	1.30	14(1164~1300MHz) 15(1559~1601MHz) 20(3600~4000MHz) 35(4800MHz) 25(4800~7100MHz) 25(7200~7500MHz) 30(9600~10000MHz)	13	45(2400~2500MHz) 25(4800~5000MHz)	1.60x0.80x0.65	C-3
	5150~5950 5950~7125	50	1.60 1.90	18(824~849MHz) 15(1164~1601MHz) 19(1606~2400MHz) 35(2400~2500MHz) 32(2501~3299MHz) 30(3300~4200MHz) 1.0(4400~4800MHz) 3.5(7680~8000MHz) 25(8288~9400MHz) 25(9400~14250MHz) 25(14700~21375MHz)	11			

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1607NLM9T02	2400~2500	50	0.75	35(4800~5000MHz) 35(5150~7125MHz) 35(7200~7500MHz) 25(7700~7950MHz) 25(7500~12000MHz) 25(10300~14250MHz) 5(15450~21375MHz)	13	30(2400~2500MHz) 35(4800~5000MHz) 35(5150~7125MHz) 35(7200~7500MHz) 18(10300~14250MHz) 13(15450~21375MHz)	1.60x0.80x0.60	C-3
	5150~5875 5875~7125	50	1.10	25(100~1000MHz) 25(1000~2300MHz) 30(2400~2500MHz) 8(2700~3500MHz) 30(10300~11900MHz) 30(11900~14250MHz) 25(15450~17850MHz) 18(17850~21375MHz)	12			
RFDIP1607WLM9T02	2400~2500	50	0.75(25°C) 0.90(-40~+85°C)	35(4800~5000MHz) 35(5150~7125MHz) 33(7200~7500MHz) 18(10300~14250MHz) 5(15450~21350MHz)	12	30(2400~2500MHz) 35(4800~5000MHz) 35(5150~7125MHz) 33(7200~7500MHz) 18(10300~14250MHz) 10(15450~21350MHz)	1.60x0.80x0.60	C-3
	5150~7125	50	1.3(25°C) 1.5(-40~+85°C)	30(24000~2500MHz) 35(10300~11900MHz) 30(11900~14250MHz) 20(15450~17850MHz) 15(17850~21375MHz)				
RFDIP1607ELM6T35	2400~2500	50	0.75	10(1200~1250MHz) 10(1570~1600MHz) 25(4800~6000MHz) 25(7200~7500MHz) 25(9600~10000MHz)	13	30(2400~2500MHz) 25(4800~6000MHz) 20(15000~18000MHz)	1.60x0.80x0.60	C-4
	4900~5100 5150~5950	50	1.50 1.20	25(1610~2000MHz) 27(2400~3000MHz) 30(3300~3800MHz) 20(9800~12000MHz) 20(14200~18000MHz)				
RFDIP1607ELM6T37	2400~2500	50	1.10	13(1164~1300MHz) 13(1559~1601MHz) 25(4800~7100MHz) 25(7200~7500MHz) 20(9600~10000MHz)	13	45(2400~2500MHz) 25(4800~7100MHz)	1.60x0.80x0.60	C-4
	4900~5150 5150~7125	50	2.00 1.70	18(824~849MHz) 15(1164~1600MHz) 19(1601~2400MHz) 35(2400~2500MHz) 32(2501~3299MHz) 30(3300~4200MHz) 1(4400~4800MHz) 30(9800~14250MHz) 20(14700~21375MHz)	12			
RFDIP1606L168M1U	2400~2500	50	0.55(25°C) 0.60(-40~+85°C)	29(4800~5000MHz) 24(7200~7500MHz)	10	32(30~2700MHz) 28(4900~5950 MHz)	1.60x0.80x0.60	A-3
	4900~5950	50	0.70(25°C) 0.80(-40~+85°C)	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP1606L21T	2400~2500	50	0.4(25°C) 0.5(-40~+85°C)	20(4900~5850MHz) 15(5850~8500MHz)	10	-	1.60x0.80x0.60	B-2
	4900~5950	50	0.6(25°C) 0.7(-40~+85°C)	20(2400~2500MHz)				
RFDIP1606L22T	2400~2500	50	0.4(25°C) 0.5(-40~+85°C)	20(4900~5850MHz)	10	32(30~2700MHz) 28(4900~5950 MHz)	1.60x0.80x0.60	B-1
	4900~5950	50	0.6(25°C) 0.7(-40~+85°C)	20(2400~2500MHz)				
RFDIP1606L23T	2400~2500	50	0.6	23(4800~5000MHz) 30(7200~7500MHz)	10	-	1.60x0.80x0.60	A-3
	5150~5850	50	1.5	25(2400~2500MHz) 15(3400~3600MHz) 10(3600~3900MHz) 20(6900~7550MHz) 30(10600~11700MHz) 20(15300~16200MHz)				
RFDIP1606L24T	2400~2500	50	0.5	23(4800~5000MHz) 30(7200~7500MHz)	10	-	1.60x0.80x0.60	A-4
	5150~5850	50	0.6	25(2400~2500MHz) 15(3400~3600MHz) 10(3600~3900MHz) 20(6900~7550MHz) 30(10600~11700MHz) 20(15300~16200MHz)				

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Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1606L29T	2400~2500	50	0.75(25°C) 0.95(-40~+85°C)	25(4800~5000MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5950	50	1.10(25°C) 1.30(-40~+85°C)	20(1800~2500MHz) 15(9800~11900MHz)				
RFDIP1606L53T	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-3
	5150~5850	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 25(2400~2500MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)				
RFDIP1606L54T	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-4
	4900~5950	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 25(2400~2500MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)				
RFDIP1606L618D1T	2400~2500	50	0.4(25°C) 0.5(-40~+85°C)	19(4800~5000MHz) 17(7200~7500MHz)	10	-	1.60x0.80x0.60	H
	5100~5900	50	1.0(25°C) 1.1(-40~+85°C)	23(1800~2500MHz) 9(3700~3900MHz) 13(9800~11900MHz)				
RFDIP1606L80T	2400~2500	50	0.68(25°C) 0.88(-40~+85°C)	10(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-1
	4900~5950	50	0.78(25°C) 0.98(-40~+85°C)	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 20(2170MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11800MHz)				
RFDIP1607L898D1T	2400~2500	50	0.90(25°C) 1.05(-40~+85°C)	15(700~1300MHz) 25(4800~5000MHz) 30(7000~7500MHz)	10	30(2400~2500MHz) 25(4900~5950MHz)	1.60x0.80x0.70	A-4
	4900~5950	50	0.80(25°C) 0.95(-40~+85°C)	27(1200~1500MHz) 26(1500~2000MHz) 20(2300~3000MHz) 25(9800~11900MHz) 15(14700~17850MHz)				
RFDIP1606L95T	2400~2500	50	0.50(25°C) 0.60(-40~+85°C)	20(4800~5000MHz) 22(5000~5950MHz) 20(7200~7500MHz)	10	30(2400~2500MHz) 25(4800~6000MHz)	1.60x0.80x0.60	A-1
	4900~5950	50	0.65(25°C) 0.75(-40~+85°C)	25(825~2170MHz) 30(2400~2500MHz) 23(9800~11900MHz)				
RFDIP1607L997A2U	2400~2500	50	0.75(25°C) 0.90(-40~+85°C)	15(1200~1250MHz) 30(4800~5000MHz) 30(5000~5950MHz) 30(7200~7500MHz)	10	30(2400~2500MHz) 30(4900~6000MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	0.50(25°C) 0.65(-40~+85°C)	30(2400~2500MHz)				
RFDIP1606L100T	2400~2500	50	0.75(25°C) 0.90(-40~+85°C)	15(1200~1250MHz) 30(4800~5000MHz) 30(5000~5950MHz) 30(7200~7500MHz)	10	30(2400~2500MHz) 30(4900~6000MHz)	1.60x0.80x0.60	A-1
	4900~5950	50	0.50(25°C) 0.65(-40~+85°C)	30(2400~2500MHz)				

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Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
KFDIP1606L96A8Q1C	2400~2500	50	0.7(25°C) 0.9(-40~+85°C)	40(4800~5000MHz) 20(7200~7500MHz)	10	40(2400~2500MHz) 40(4800~5000MHz) 40(5000~6000MHz)	1.60x0.80x0.60	C-2
	4900~5150 5150~5950	50	1.3(25°C) 1.5(-40~+85°C) 1.0(25°C) 1.2(-40~+85°C)	40(2400~2500MHz) 25(10300~11700MHz) 15(15300~16200MHz)				
KFDIP1606L96B8Q1C	2400~2500	50	0.7(25°C) 0.9(-40~+85°C)	40(4800~5000MHz) 20(7200~7500MHz)	10	40(2400~2500MHz) 40(4800~5000MHz) 40(5000~6000MHz)	1.60x0.80x0.60	C-1
	4900~5100 5150~5950	50	1.3(25°C) 1.5(-40~+85°C) 1.0(25°C) 1.2(-40~+85°C)	40(2400~2500MHz) 25(10300~11700MHz) 15(15300~16200MHz)				
RFDIP1606L110C8Q1C	2400~2500	50	0.48(25°C) 0.58(-40~+85°C)	20(4800~5000MHz) 22(5000~5950MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-3
	4900~5950	50	0.68(25°C) 0.78(-40~+85°C)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 20(15450~17550MHz)				
RFDIP1606L115A8D1T	2400~2500	50	0.50(25°C) 0.70(-40~+85°C)	27(4800~5000MHz) 27(7200~7500MHz)	12	27(2400~2500MHz) 27(5150~5850MHz)	1.60x0.80x0.60	A-4
	5150~5850	50	0.70(25°C) 0.90(-40~+85°C)	27(2400~2500MHz) 27(10300~11700MHz) 27(15450~16200MHz)				
RFDIP1606L115B8D1T	2400~2500	50	0.50(25°C) 0.70(-40~+85°C)	27(4800~5000MHz) 27(7200~7500MHz)	12	27(2400~2500MHz) 27(5150~5850MHz)	1.60x0.80x0.60	A-3
	5150~5850	50	0.70(25°C) 0.90(-40~+85°C)	27(2400~2500MHz) 27(10300~11700MHz) 27(15450~16200MHz)				
RFDIP1606L117B8D1T	2400~2500	50	0.50(25°C) 0.65(-40~+85°C)	35(4800~5000MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-4
	5150~5950	50	1.0(25°C) 1.2(-40~+85°C)	30(70~2000MHz) 30(2400~2690MHz) 12(7250~7800MHz) 25(10300~12000MHz) 10(15000~18000MHz)				
RFDIP1607L123AT	2400~2500	50	0.70(25°C) 0.75(-40~+85°C)	32(4800~4992MHz) 24(7200~7488MHz)	10	32(30~2700MHz) 28(4900~5950MHz)	1.60x0.80x0.60	A-4
	4900~5150 5150~5950	50	0.9(25°C) 1.0(-40~+85°C) 0.85(25°C) 0.95(-40~+85°C)	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP1606L129AT	2400~2500	50	0.60(25°C) 0.75(-40~+85°C)	30(4800~5000MHz) 30(5000~5950MHz) 20(7200~7500MHz)	10	38(2400~2500MHz) 38(4900~5950MHz)	1.60x0.80x0.60	A-1
	4900~5950	50	0.78(25°C) 0.98(-40~+85°C)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 15(15450~17550MHz)				
RFDIP1606L129BT	2400~2500	50	0.60(25°C) 0.75(-40~+85°C)	30(4800~5000MHz) 30(5000~5950MHz) 20(7200~7500MHz)	10	38(2400~2500MHz) 38(4900~5950MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	0.78(25°C) 0.98(-40~+85°C)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 15(15450~17550MHz)				
RFDIP1606L129CT	2400~2500	50	0.60(25°C) 0.75(-40~+85°C)	30(4800~5000MHz) 30(5000~5950MHz) 20(7200~7500MHz)	10	38(2400~2500MHz) 38(4900~5950MHz)	1.60x0.80x0.60	A-3
	4900~5950	50	0.78(25°C) 0.98(-40~+85°C)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 15(15450~17550MHz)				
RFDIP1607L132A8D1	2400~2500	50	0.90(25°C) 1.10(-40~+85°C)	17(700~1300MHz) 25(4800~5000MHz) 27(7000~7500MHz)	13	-	1.60x0.80x0.60	A-1
	4900~5950	50	1.10(25°C) 1.30(-40~+85°C)	25(1200~1500MHz) 26(1600~2000MHz) 25(2300~3000MHz) 28(10000~12000MHz) 20(15000~16500MHz) 10(16500~18000MHz)				

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Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1606L150AT	2400~2500	50	0.45(25°C) 0.55(-40~+85°C)	21(4800~5000MHz) 23(5000~5500MHz) 28(5500~5950MHz) 21(7200~7500MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5850	50	0.60(25°C) 0.70(-40~+85°C)	27(824~2170MHz) 31(2400~2500MHz) 26(9800~11900MHz)				
RFDIP1606L150BT	2400~2500	50	0.45(25°C) 0.55(-40~+85°C)	20(4800~5000MHz) 22(5000~5950MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-1
	4900~5850	50	0.60(25°C) 0.70(-40~+85°C)	26(824~2170MHz) 30(2400~2500MHz) 25(9500~11900MHz)				
RFDIP1606L163AT	2400~2500	50	0.45(25°C) 0.55(-40~+85°C)	35(4800~5000MHz) 30(5000~5950MHz) 42(7200~7500MHz)	10	35(2400~2500MHz) 30(4900~6000MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	0.65(25°C) 0.80(-40~+85°C)	27(824~2170MHz) 33(2400~2500MHz) 34(9500~11900MHz) 20(15500~17500MHz)				
RFDIP1607L164A8Q1C	2400~2500	50	0.80	45(4800~5000MHz) 20(7200~7500MHz)	10	40(2400~2500MHz) 40(4800~5000MHz) 40(5000~6000MHz) 30(6000~7150MHz)	1.60x0.80x0.60	C-2
	4900~5100 5150~7150	50	1.30 1.00	40(2400~2500MHz) 22(10300~14300MHz) 12(15300~21450MHz)				
RFDIP1607L164B8Q1C	2400~2500	50	0.80	45(4800~5000MHz) 20(7200~7500MHz)	10	40(2400~2500MHz) 40(4800~5000MHz) 40(5000~6000MHz) 30(6000~7150MHz)	1.60x0.80x0.60	C-1
	4900~5100 5150~7150	50	1.30 1.00	40(2400~2500MHz) 22(10300~14300MHz) 12(15300~21450MHz)				
RFDIP1606L166AT	698~960 1427~1511 1710~2170 2300~2690	50	0.28 0.45 0.55 0.90	8(3300~3400MHz) 13(3400~3800MHz) 14(3800~4200MHz) 16(4400~5000MHz) 20(5150~5850MHz)	10	17(698~9600MHz) 14(1427~1511MHz) 14(1710~2170MHz) 14(2300~2690MHz) 10(3300~3400MHz) 13(3400~3800MHz) 14(3800~4200MHz) 16(4400~5000MHz) 20(5150~5850MHz)	1.60x0.80x0.60	C-1
	3300~3400 3400~3800 3800~4200 4400~5000 5150~5850	50	1.65 1.00 0.65 0.54 0.54	17(698~9600MHz) 15(1427~1511MHz) 15(1710~2170MHz) 14(2300~2690MHz) 18(10300~11700MHz)				
RFDIP1606L166BT	698~960 1427~1511 1710~2170 2300~2690	50	0.28 0.45 0.55 0.90	8(3300~3400MHz) 13(3400~3800MHz) 14(3800~4200MHz) 16(4400~5000MHz) 20(5150~5850MHz)	10	17(698~9600MHz) 14(1427~1511MHz) 14(1710~2170MHz) 14(2300~2690MHz) 10(3300~3400MHz) 13(3400~3800MHz) 14(3800~4200MHz) 16(4400~5000MHz) 20(5150~5850MHz)	1.60x0.80x0.60	C-2
	3300~3400 3400~3800 3800~4200 4400~5000 5150~5850	50	1.65 1.00 0.65 0.54 0.54	17(698~9600MHz) 15(1427~1511MHz) 15(1710~2170MHz) 14(2300~2690MHz) 18(10300~11700MHz)				
RFDIP1606LC32T	2400~2500	50	0.65	25(4800~5000MHz) 25(5150~7125MHz) 25(7200~7500MHz)	13.9	25(2400~2500MHz) 25(5150~7130MHz)	1.60x0.80x0.60	A-1
	5150~5330 5330~7130	50	1.10 1.00	25(2400~2500MHz) 22(2515~3600MHz) 5(3800~4200MHz) 23(10300~14250MHz) 18(15450~21375MHz)	12.9			
RFDIP1606LB46T	2400~2500	50	0.60(25°C) 0.75(-40~+85°C)	30(4800~5000MHz) 30(5000~5950MHz) 29(7200~7500MHz) 29(7200~7236MHz) 29(7311~7386MHz) 29(7416~7500MHz)	10	38(2400~2500MHz) 35(4900~5950MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	0.78(25°C) 0.98(-40~+85°C)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 15(15450~17550MHz)				
RFDIP1606LA488Q1C	2400~2500	50	0.70	40(4800~5000MHz) 25(7200~7500MHz)	15	35(2400~2500MHz) 35(4800~5000MHz) 35(5000~5950MHz) 35(5950~7125MHz)	1.60x0.80x0.60	C-1
	5150~5250 5250~7015 7015~7125	50	1.65 1.55 1.65	35(700~2690MHz) 30(3300~3800MHz) 30(3800~4200MHz) 14(8220~8550MHz) 25(10300~14250MHz) 20(15450~21750MHz)	12			

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Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1606LC538D1T	2400~2500	50	1.0(25°C) 1.2(-40~+85°C)	18(700~1300MHz) 30(4800~5000MHz) 30(7200~7500MHz)	10	30(2400~2500MHz) 30(5150~7125MHz)	1.60x0.80x0.60	A-1
	5150~5925 5925~7125	50	1.1(25°C) 1.3(-40~+85°C) 1.8(25°C) 2.0(-40~+85°C)	26(16000~2000MHz) 25(2300~3000MHz) 8(7700~9400MHz) 25(10300~14400MHz) 15(15450~21660MHz)				
RFDIP1606LC868M1T	2400~2500	50	0.75	20(1200MHz) 35(4800~5000MHz) 30(5150~7125MHz) 30(7200~7500MHz) 25(10300~14250MHz) 8(15450~21375MHz)	15	30(2400~2500MHz) 35(4800~5000MHz) 30(5150~7125MHz) 30(7200~7500MHz) 30(10300~14250MHz) 20(15450~21375MHz)	1.60x0.80x0.60	C-3
	5150~5875 5875~7125	50	0.8	30(4800~5000MHz) 33(10300~11900MHz) 28(11900~14250MHz) 28(15450~17850MHz) 20(17850~21375MHz)	15			
RFDIP1607LC968D1T	2400~2500	50	1.10	18(700~1300MHz) 30(4800~5000MHz) 30(7200~7500MHz)	11	30(2400~2500MHz) 30(5150~7125MHz)	1.60x0.80x0.60	A-1
	5150~5950	50	1.10	26(1600~2000MHz) 25(2300~3000MHz) 25(10300~14250MHz) 15(15450~21375MHz)				
RFDIP1607LA1078Q1C	2400~2500	50	1.00	18(700~1300MHz) 30(4800~5000MHz) 30(7200~7500MHz)	10	30(2400~2500MHz) 30(5150~7125MHz)	1.60x0.80x0.60	C-2
	5150~5925 5925~7125	50	1.00 1.70	26(1600~2000MHz) 25(2300~3000MHz) 8(7800~9400MHz) 25(10300~14250MHz) 15(15450~21375MHz)				
KFDIP2004L157B1U	2400~2500	50	0.5	10(3600MHz) 20(4800~5000MHz) 20(7200~7500MHz)	10	20(DC~2500MHz) 20(4900~5950MHz)	2.00x1.25x0.40	A-3
	4900~5950	50	1.0	20(824~915MHz) 20(1800~2500MHz) 10(3000~3900MHz) 4(7250MHz) 20(9800~11900MHz) 20(14700~17850MHz)				
KFDIP2004L167B1U	2400~2500	50	0.5	10(3600MHz) 20(4800~5000MHz) 20(7200~7500MHz)	10	20(DC~2500MHz) 20(4900~5950MHz)	2.00x1.25x0.40	A-4
	4900~5950	50	1.0	20(824~915MHz) 20(1800~2500MHz) 10(3000~3900MHz) 4(7250MHz) 20(9800~11900MHz) 20(14700~17850MHz)				
KFDIP2004L197B1U	2400~2500	50	0.6	15(3600MHz) 25(4800~5000MHz) 20(7200~7500MHz)	10	20(DC~2500MHz) 20(4900~5950MHz)	2.00x1.25x0.40	A-3
	4900~5950	50	1.0	20(824~915MHz) 18(1800~2500MHz) 14(3000~3900MHz) 20(9800~11900MHz) 20(14700~17850MHz)				
RFDIP2012050L5T	2400~2500	50	0.7	18(4800~6000MHz) 18(7200~7500 MHz)	10	-	2.00x1.25x0.55	A-1
	4900~5900	50	1.0	19(1800~2500MHz) 25(10300~10700MHz)				
RFDIP2012050L7T	2400~2500	50	0.7	18(4800~6000MHz) 18(7200~7500MHz)	10	-	2.00x1.25x0.55	A-2
	4900~5900	50	1.0	19(1800~2500MHz) 25(10300~10700MHz)				
RFDIP2012050L8T	2300~2500	50	0.65(25°C) 0.8(-40~+85°C)	20(4600~5000MHz) 20(6900~7500MHz)	10	-	2.00x1.25x0.55	A-3
	4900~5950	50	1.0	19(1800~2500MHz) 25(10300~10700MHz)				

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Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP2012100L0T	2400~2500	50	0.7	20(4900MHz) 25(5200MHz) 25(5800MHz)	10	-	2.00x1.25x0.95	A-3
	4900~5900	50	0.9	25(2450MHz)				
RFDIP2012100L3T	2400~2500	50	0.7	20(4900MHz) 25(5200MHz) 25(5800MHz)	10	-	2.00x1.25x0.95	A-2
	4900~5900	50	0.9	25(2450MHz)				
RFDIP2012050LPT	2400~2500	50	0.5(25°C) 0.55(-40~+85°C)	23(4800~6000MHz) 20(7200~7500MHz)	10	-	2.00x1.25x0.55	A-1
	4900~5950	50	0.65(25°C) 0.75(-40~+85°C)	20(800~2500MHz) 15(9800~11900MHz)				
RFDIP2012050LQT	2400~2500	50	0.5(25°C) 0.55(-40~+85°C)	23(4800~6000MHz) 20(7200~7500MHz)	10	-	2.00x1.25x0.55	A-2
	4900~5950	50	0.65(25°C) 0.75(-40~+85°C)	20(800~2500MHz) 15(9800~11900MHz)				
RFDIP2008L107N3T	2400~2500	50	2.2(25°C) 2.4(-40~+85°C)	30(824~915MHz) 30(1545~1610MHz) 30(1710~1990MHz) 25(2110~2170MHz) 8(3200~3600MHz) 12(3700~3900MHz) 28(4800~5000MHz) 25(7200~7500MHz)	10	-	2.00x1.25x0.80	A-1
	5150~5850	50	1.2(25°C) 1.5(-40~+85°C)	20(1545~1610MHz) 20(1710~1990MHz) 20(2110~2170MHz) 23(2400~2500MHz) 8(3450~3900MHz) 8(7250~7800MHz) 20(9800~11700MHz)				
RFDIP2008L117N3T	2400~2500	50	2.2(25°C) 2.4(-40~+85°C)	30(824~915MHz) 30(1545~1610MHz) 30(1710~1990MHz) 25(2110~2170MHz) 8(3200~3600MHz) 12(3700~3900MHz) 28(4800~5000MHz) 25(7200~7500MHz)	10	-	2.00x1.25x0.80	A-2
	5150~5850	50	1.2(25°C) 1.5(-40~+85°C)	20(1545~1610MHz) 20(1710~1990MHz) 20(2110~2170MHz) 23(2400~2500MHz) 8(3450~3900MHz) 8(7250~7800MHz) 20(9800~11700MHz)				
RFDIP2010L38A7B1U	2400~2500	50	0.50(25°C) 0.65(-40~+85°C)	10(3600MHz) 25(4800~5000MHz) 25(7200~7500MHz)	10	45(2400~2500MHz) 25(5150~7500MHz)	2.00x1.25x0.95	A-4
	5150~7500	50	1.0(25°C) 1.2(-40~+85°C)	20(824~915MHz) 20(1800~2300MHz) 45(2400~2500MHz) 10(3000~3900MHz) 25(10300~15000MHz) 20(15450~21000MHz) 15(21000~22500MHz)				
RFDIP2010L38B7B1U	2400~2500	50	0.50(25°C) 0.65(-40~+85°C)	10(3600MHz) 25(4800~5000MHz) 25(7200~7500MHz)	10	45(2400~2500MHz) 25(5150~7500MHz)	2.00x1.25x0.95	A-3
	5150~7500	50	1.0(25°C) 1.2(-40~+85°C)	20(824~915MHz) 20(1800~2300MHz) 45(2400~2500MHz) 10(3000~3900MHz) 25(10300~15000MHz) 20(15450~21000MHz) 15(21000~22500MHz)				
RFDIP2006LB18T	1559~3800 3800~4200	50	0.7(25°C) 1.6(25°C)	18(5150~5850MHz)	10	-	2.00x1.25x0.65	C-2
	5150~5850	50	0.85(25°C) 1.05(-40~+85°C)	20(3400~3800MHz) 7(3800~4200MHz) 20(10300~11700MHz) 20(15450~17550MHz)				

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP2007LB21T	600~3300 3300~3800 3800~4200	50	0.6 0.8 1.1	20(5150~7125MHz)	10	20(3300~4200 MHz) 20(5150~7125MHz)	2.00x1.25x0.65	C-2
	5150~5950 5950~7125	50	1.1 0.8	20(600~3300 MHz) 20(3300~4200 MHz) 20(10300~14250 MHz)				
RFDIP2006LA29T	2400~2500	50	1.5(25°C) 1.7(-40~+85°C)	30(824~915MHz) 20(1545~1610MHz) 20(1710~1990MHz) 32(4800~5000MHz) 28(7200~7500MHz)	10	-	2.00x1.25x0.60	A-3
	5150~5850	50	1.0(25°C) 1.2(-40~+85°C)	25(1545~1610MHz) 30(2400~2500MHz) 20(10300~11700MHz)				
RFDIP2007LB30T	600~2700 3300~3800 3800~4200	50	0.40 0.50 0.75	20(5150~7125MHz) 18(7250~8400MHz) 23(9500~12800MHz)	10	20(600~2700MHz) 28(3300~3600MHz) 28(3600~3800MHz) 27(3800~4200MHz) 20(5150~7125MHz) 20(7250~8400MHz)	2.00x1.25x0.60	C-2
	5150~6425 6425~7125	50	1.10 1.20	20(600~2700MHz) 30(3300~3600MHz) 28(3600~3800MHz) 27(3800~4200MHz) 10(8200~9320MHz) 20(9800~14250MHz) 10(14700~17850MHz)				
RFDIP2009ALM9T21	2400~2500	50	0.7(25°C) 0.8(-40~+85°C)	30(4800~5000MHz) 30(7200~7500MHz)	10	-	2.00x1.25x0.90	A-3
	5150~5850	50	2.7(25°C) 3.0(-40~+85°C)	30(2400~2500MHz) 20(6100~7125MHz) 15(10300~18000MHz)				
RFDIP2008ELM9T21	2400~2500	50	0.6(25°C) 0.7(-40~+85°C)	35(4800~5000MHz) 35(7200~7500MHz)	10	-	2.00x1.25x0.80	A-2
	6100~7125	50	2.7(25°C) 3.0(-40~+85°C)	30(2400~2500MHz) 20(5150~5845MHz) 25(12200~14250MHz) 8(18300~21375MHz)				
AMDIP2520070L3T	2400~2500	50	2.4(25°C) 2.7(-40~+85°C)	30(824~915MHz) 30(1545~1610MHz) 24(1710~1990MHz) 15(2110~2170MHz) 30(4800~5000MHz) 20(7200~7500MHz)	10	-	2.50x2.00x0.70	E-1
	5150~5850	50	1.2(25°C) 1.5(-40~+85°C)	25(1545~1610MHz) 25(2400~2500MHz) 15(10300~11700MHz)				
AMDIP2520070L4T	2400~2500	50	2.4(25°C) 2.7(-40~+85°C)	30(824~915MHz) 30(1545~1610MHz) 24(1710~1990MHz) 15(2110~2170MHz) 30(4800~5000MHz) 20(7200~7500MHz)	10	-	2.00x1.25x0.80	E-2
	5150~5850	50	1.2(25°C) 1.5(-40~+85°C)	25(1545~1610MHz) 25(2400~2500MHz) 15(10300~11700MHz)				
RFDIP2506L19AT	617~960 1427~1661 1710~2200 2300~2690	50	0.4 0.5 0.5 0.8	18(3300~3400MHz) 20(3400~3800MHz) 20(3800~4200MHz) 20(4400~5000MHz) 20(5150~5950MHz)	10	20(617~2690MHz) 18(1427~1661MHz) 18(1710~2200MHz) 18(2300~2690MHz) 18(3300~3400MHz) 20(3400~3800MHz) 20(3800~4200MHz) 20(4400~5000MHz) 20(5150~5950MHz)	2.50x2.00x0.65	I-1
	3300~3400 3400~4200 4400~5000 5150~5950	50	1.0 0.8 0.8 0.8	20(617~2690MHz) 18(1427~1661MHz) 18(1710~2200MHz) 18(2300~2690MHz) 20(10300~11700MHz) 15(15450~17550MHz)				
RFDIP2506L19BT	617~960 1427~1661 1710~2200 2300~2690	50	0.4 0.5 0.5 0.8	18(3300~3400MHz) 20(3400~3800MHz) 20(3800~4200MHz) 20(4400~5000MHz) 20(5150~5950MHz)	10	20(617~2690MHz) 18(1427~1661MHz) 18(1710~2200MHz) 18(2300~2690MHz) 18(3300~3400MHz) 20(3400~3800MHz) 20(3800~4200MHz) 20(4400~5000MHz) 20(5150~5950MHz)	2.50x2.00x0.65	I-2
	3300~3400 3400~4200 4400~5000 5150~5950	50	1.0 0.8 0.8 0.8	20(617~2690MHz) 18(1427~1661MHz) 18(1710~2200MHz) 18(2300~2690MHz) 20(10300~11700MHz) 15(15450~17550MHz)				

GPS 1.575GHz/ISM 2.4GHz/5GHz Band Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)Min.	Isolation	Size (mm)	Structure
RFDIP1608060T1T	1574~1577	50	0.65	20(2400~2500MHz)	10	-	1.60x0.80x0.60	B-1
	2400~2500	50	0.8	20(1574~1577MHz)				
RFDIP1608060TM7T62	1570~1610	50	0.6(typ.0.5)	20(2400~2500MHz) 20(4900~5900MHz)	10	-	1.60x0.80x0.60	A-4
	2400~2500 4900~5900	50	0.65(typ.0.55)	20(1570~1610MHz)				
RFDIP1608060TAT	698~960 1427~1511 1560~1607	50	0.40 0.55 0.65	20(2400~2500MHz) 20(2620~2690MHz) 20(5150~5850MHz)	10	-	1.60x0.80x0.60	B-1
	2400~2500 2620~2690 5150~5850	50	0.70 0.60 0.80	20(698~960MHz) 20(1427~1511MHz) 20(1560~1607MHz)				
RFDIP1608060TCT	1570~1610	50	0.6(typ.0.5)	20(2400~2500MHz) 20(4900~5900MHz)	10	-	1.60x0.80x0.60	A-4
	2400~2500 4900~5900	50	0.65(typ.0.55)	20(1570~1610MHz)				
RFDIP1608060TDT	1570~1610	50	0.65(25°C) 0.75(-40~+85°C)	13(2170MHz) 20(2400~2500MHz)	10	-	1.60x0.80x0.60	B-2
	2400~2500	50	0.80(25°C) 0.90(-40~+85°C)	20(1565~1616MHz) 15(1710MHz)				
RFDIP1606T11T	704~960 1572~1578 1570~1610	50	0.50 0.75 0.85	15(2400~2500MHz) 13(2500~2690MHz) 18(4900~5150MHz) 20(5150~5850MHz) 20(5850~5900MHz)	10	-	1.60x0.80x0.60	A-3
	2400~2500 2500~2690 4900~5150 5150~5850 5850~5900	50	0.75 0.85 0.55 0.55 0.55	25(704~960MHz) 20(1570~1578MHz) 20(1570~1610MHz)				
RFDIP1606T24AT	1565~1616	50	0.70(25°C) 0.80(-40~+85°C)	25(2400~2500MHz)	10	25(1565~1616MHz) 33(2400~2500MHz)	1.60x0.80x0.60	B-2
	2400~2500	50	0.80(25°C) 0.90(-40~+85°C)	25(1565~1616MHz)				
RFDIP1606T25ET	1565~1616	50	0.70(25°C) 0.80(-40~+85°C)	25(2400~2500MHz)	10	25(1565~1616MHz) 33(2400~2500MHz)	1.60x0.80x0.60	B-3
	2400~2500	50	0.80(25°C) 0.90(-40~+85°C)	25(1565~1616MHz)				
RFDIP2012090T2T	1572.5~1578.5 1597~1607	50	0.40 0.50	13(2400~2500MHz)	10	-	2.00x1.25x0.90	A-3
	2400~2500	50	0.55(25°C) 0.65(-40~+85°C)	22(1572.5~1578.5MHz) 20(1597~1607MHz)				
RFDIP2006T13AT	600~980 1427~1511 1710~2170 2300~2496 2496~2690	50	0.35 0.45 0.55 0.75 1.05	18(3300~3400MHz) 23(3400~3800MHz) 30(5150~5925MHz) 20(7485~8070MHz)	8.5	30(600~960MHz) 30(1427~1511MHz) 23(1710~2170MHz) 23(2170~2690MHz) 20(3300~3400MHz) 23(3400~3800MHz) 28(5150~5925MHz)	2.00x1.25x0.60	C-1
	3300~3400 3400~3800 3800~4200 5150~5925	50	1.30 1.05 0.95 0.65	30(600~960MHz) 30(1427~1511MHz) 25(1710~2170MHz) 22(2170~2690MHz) 25(10300~11850MHz) 5(15450~17775MHz)				

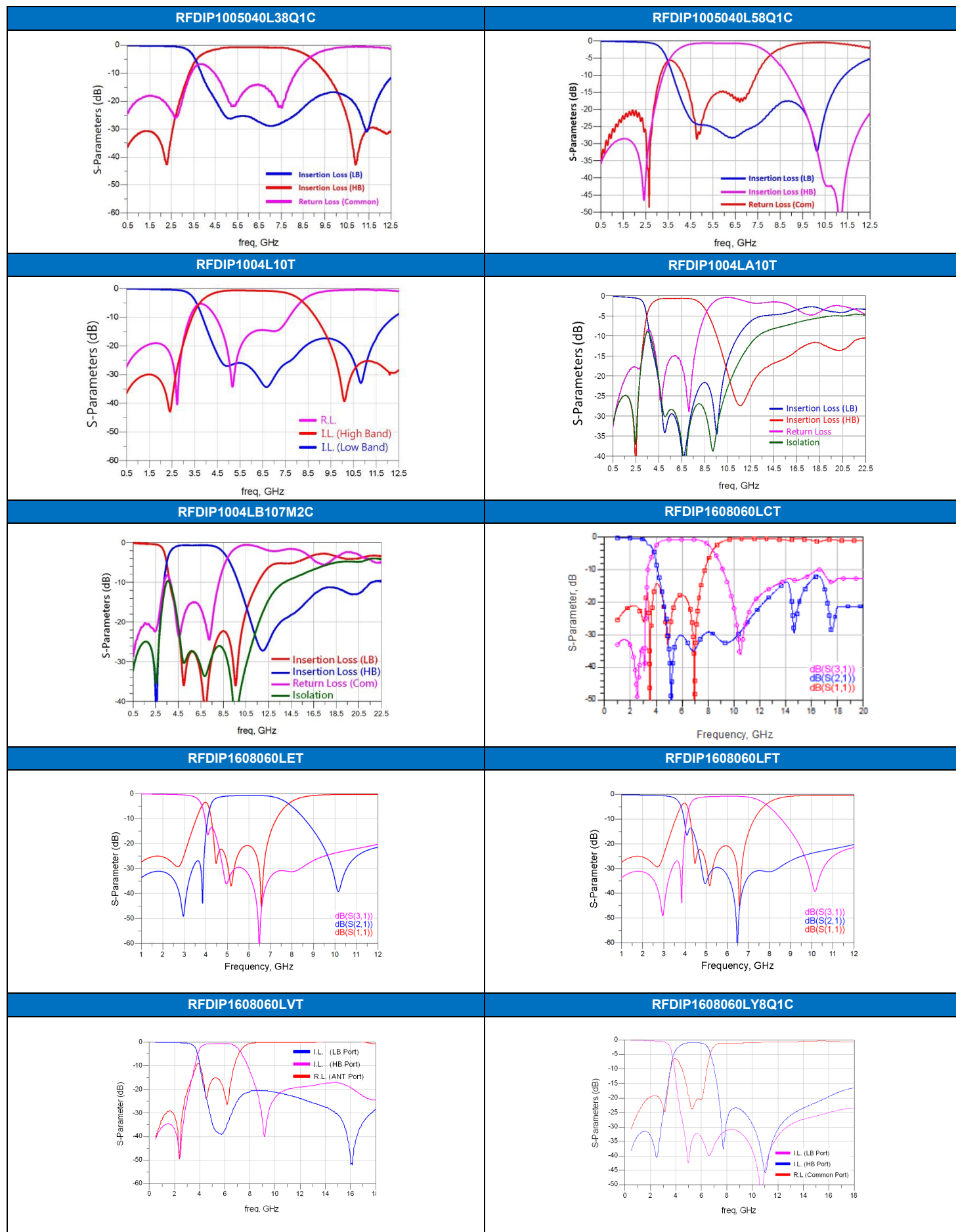
GPS 1.575GHz/ISM 2.4GHz/5GHz Band Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)Min.	Isolation	Size (mm)	Structure
RFDIP2006T13BT	600~980 1427~1511 1710~2170 2300~2496 2496~2690	50	0.35 0.45 0.55 0.75 1.05	18(3300~3400MHz) 23(3400~3800MHz) 30(5150~5925MHz) 20(7485~8070MHz)	8.5	30(600~960MHz) 30(1427~1511MHz) 23(1710~2170MHz) 23(2170~2690MHz) 20(3300~3400MHz) 23(3400~3800MHz) 28(5150~5925MHz)	2.00x1.25x0.60	C-2
	3300~3400 3400~3800 3800~4200 5150~5925	50	1.30 1.05 0.95 0.65	30(600~960MHz) 30(1427~1511MHz) 25(1710~2170MHz) 22(2170~2690MHz) 25(10300~11850MHz) 5(15450~17775MHz)				
RFDIP2009T22AT	698~1710 1710~1980 1980~2170	50	0.8 0.8 1.0	12(2496~2690MHz) 12(2690~4200MHz)	12	12(698~2170MHz) 12(2496~4200MHz)	2.00x1.25x0.95	A-3
	2496~2690 2690~4200	50	1.0 0.6	12(698~1710MHz) 12(1710~1980MHz) 15(2110~2170MHz)				
RFDIP2009T22BT	698~1710 1710~1980 1980~2170	50	0.8 0.8 1.0	12(2496~2690MHz) 12(2690~4200MHz)	12	12(698~2170MHz) 12(2496~4200MHz)	2.00x1.25x0.95	A-4
	2496~2690 2690~4200	50	1.0 0.6	12(698~1710MHz) 12(1710~1980MHz) 15(2110~2170MHz)				
RFDIP2520080T1T	1710~1990 1990~2110 2110~2170	50	1.00 1.50 2.50	5(2300~2350MHz) 10(2350~2500MHz) 10(2500~2690MHz)	10	-	2.50x2.00x0.80	C-2
	2300~2350 2350~2500 2500~2690	50	2.65 1.50 0.65	8(1710~1990MHz) 8(1990~2110MHz) 5(2110~2170MHz)				
RFDIP2508TA10T	450~960 960~1427 1427~1710 1710~1990 1990~2025 2025~2110 2110~2170 2170~2200	50	0.45 0.45 0.45 0.70 0.80 1.40 1.90 2.80	10(2300~2350MHz) 10(2350~2690MHz) 18(3300~4200MHz) 20(4400~5000MHz) 20(5150~5925MHz)	10	15(450~960MHz) 19(1427~1710MHz) 10(1710~2200MHz) 10(2300~2690MHz) 18(3300~4200MHz) 20(4400~5000MHz)	2.50x2.00x0.80	C-1
	2300~2350 2350~2400 2400~2500 2500~2690	50	2.00 1.00 0.85 0.70	16(450~960MHz) 20(1427~1710MHz) 10(1710~2200MHz)	10			
RFDIP2507TA149S5K	1350~1440	50	0.50(25°C) 0.70(-40~+85°C)	22(2200~2500MHz) 25(2700~2880MHz)	10	22(1350~1440MHz) 22(2200~2500MHz)	2.50x2.00x0.60	F
	2200~2500	50	0.60(25°C) 0.80(-40~+85°C)	22(1350~1440MHz) 25(4400~5000MHz) 25(4800~5000MHz)	10			

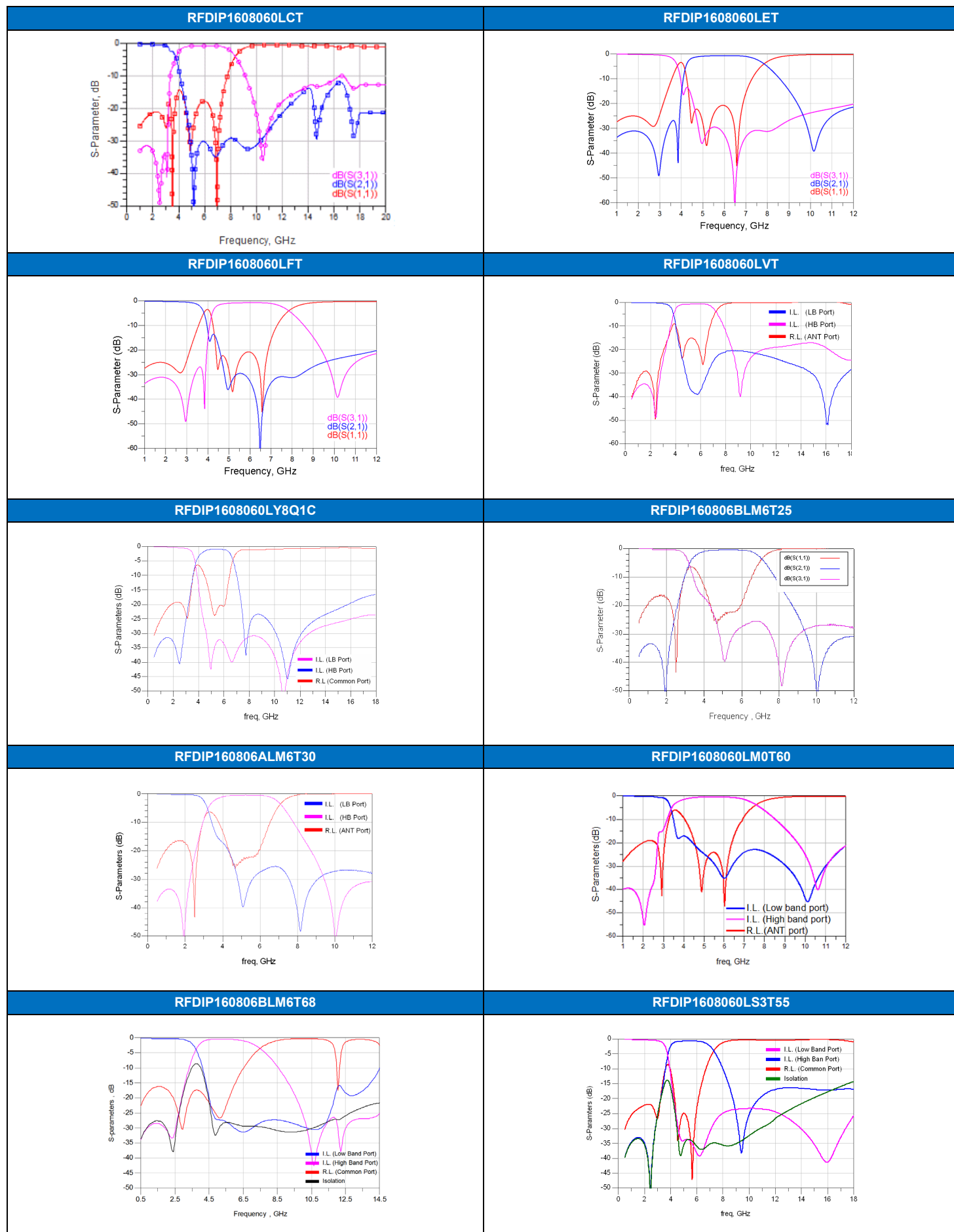
892 MHz & 1.94GHz Band Working Frequency

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)Min.	Isolation	Size (mm)	Structure
RFDIP1608070GM1T76	698~960	50	0.8(typ.0.45)	25(1710~2700MHz)	10	-	1.60x0.80x0.60	D-2
	1710~2700		0.7(typ.0.50)	20(698~960MHz) 20(5150~5850MHz)				
RFDIP1608070G1T	700~960	50	0.6(25°C) 0.65(-40~+85°C)	25(1710~2690MHz)	10	20(700~960MHz) 25(1710~2690MHz)	1.60x0.80x0.60	A-3
	1710~2690		0.6(25°C) 0.65(-40~+85°C)	20(700~960MHz)				
RFDIP1607GA13T	600~960	50	0.8(25°C) 0.90(-40~+85°C)	22(1427~2750MHz)	10	20(600~960MHz) 22(1427~2750MHz)	1.60x0.80x0.70	C-1
	1427~2750		0.8(25°C) 0.90(-40~+85°C)	20(600~960MHz) 15(5150~5850MHz)				
RFDIP2012090G77N2T	698~960	50	0.65	15(1554~1580MHz) 20(1710~2700MHz)	10	-	2.00x1.25x0.90	A-4
	1710~2700		0.65	20(824~960MHz)				
RFDIP2012090GM1T58	698~960	50	0.4(25°C) 0.45(-40~+85°C)	13(1710~2690MHz)	10	-	2.00x1.25x0.90	C-3
	1710~2690		0.55(25°C) 0.65(-40~+85°C)	19(698~960MHz)				
RFDIP2009G12T	698~960	50	0.6(25°C) 0.7(-40~+85°C)	28(1710~2170MHz) 28(2170~2400MHz) 32(2400~2700MHz)	10	20(698~960MHz) 25(1710~2700MHz)	2.00x1.25x0.90	A-4
	1710~2700		0.6(25°C) 0.7(-40~+85°C)	23(698~960MHz)				
RFDIP2008G27AT	617~698 699~758 758~798 798~960	50	0.60 0.60 0.55 0.60	20(1554~1606MHz) 35(1805~1880MHz) 35(2110~2200MHz) 35(2620~2690MHz) 35(3400~3800MHz) 32(5150~5925MHz)	12	20(617~699MHz) 20(699~960MHz) 30(1710~2200MHz) 38(2300~2690MHz) 30(3400~3800MHz) 25(5150~5925MHz)	2.00x1.25x0.80	C-2
	1452~1496 1710~2200 2300~2690		1.20 0.60 0.70	22(617~960MHz) 2(3400~3800MHz) 22(5150~5925MHz)				
RFDIP2009G35AT	570~960	50	0.48(25°C) 0.68(-40~+85°C)	11(1427.9~2750MHz)	10	-	2.00x1.25x0.90	C-1
	1427.9~2750		0.48(25°C) 0.68(-40~+85°C)	11(570~960MHz)				
RFDIP2008GA22T	617~960	50	0.65(25°C) 0.75(-40~+85°C)	3.0(1280~1350MHz) 20.5(1427.9~1698MHz) 25.0(1710~2200MHz) 26.0(2300~2690MHz) 22.0(3400~3700MHz) 25.0(5150~5925MHz) 20.0(2200~6000MHz) 10.0(6000~7200MHz) 7.0(7200~7500MHz) 2.0(7500~9000MHz) 0.5(9000~12750MHz)	14	27.5(617~960MHz) 22.5(1427.9~1510.9MHz) 24.0(1710~2220MHz) 26.0(2300~2690MHz)	2.00x1.25x0.80	C-1
	1427.9~1510.9 1710~1785 1805~2200 2300~2690		1.00 0.57 0.50 0.50	20.0(40~617MHz) 27.5(617~960MHz) 0.5(3700~4500MHz) 9.5(4500~5150MHz) 30.0(5150~5925MHz) 25.0(5925~8000MHz) 8.5(8000~11400MHz) 5.0(11400~12750MHz)	12			

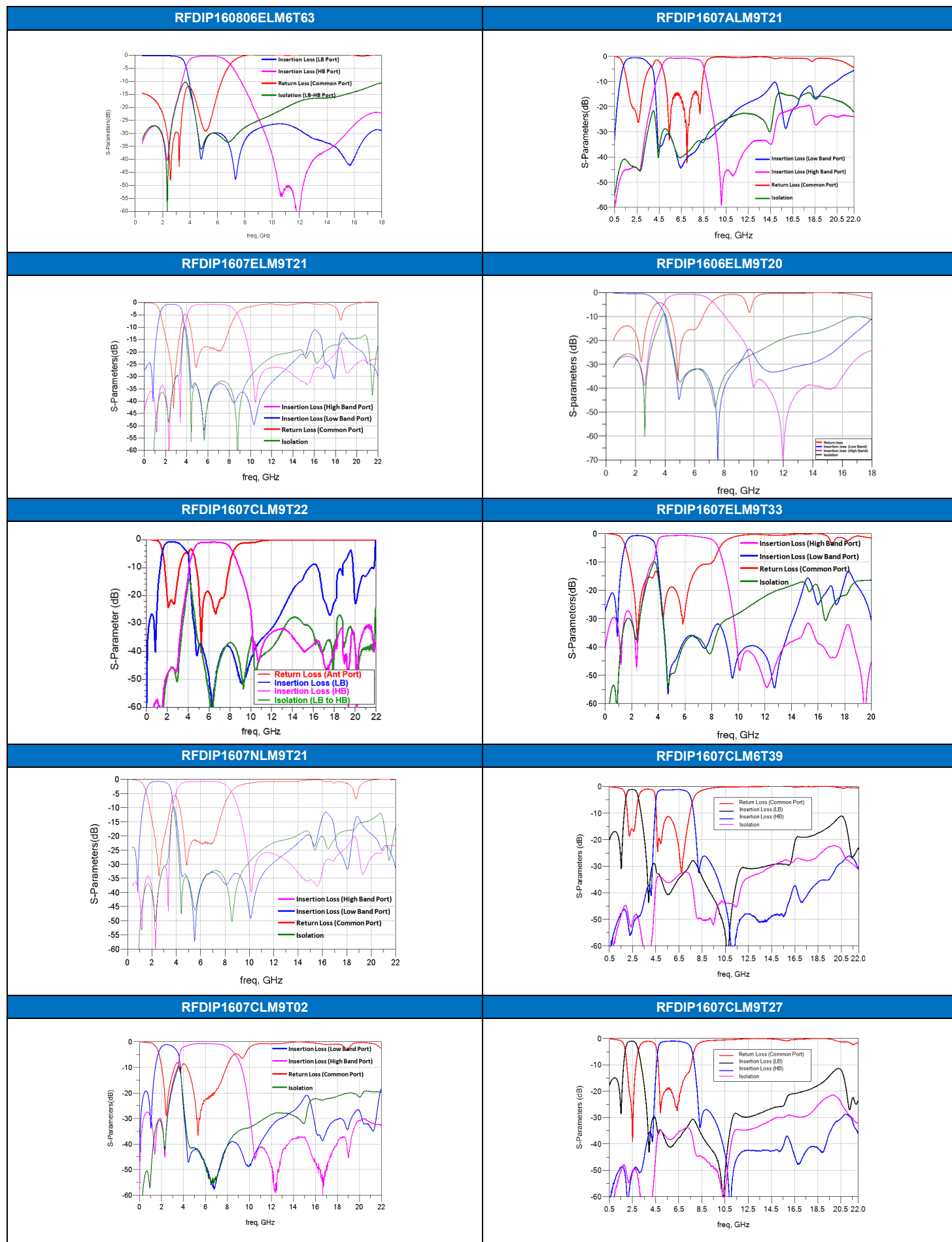
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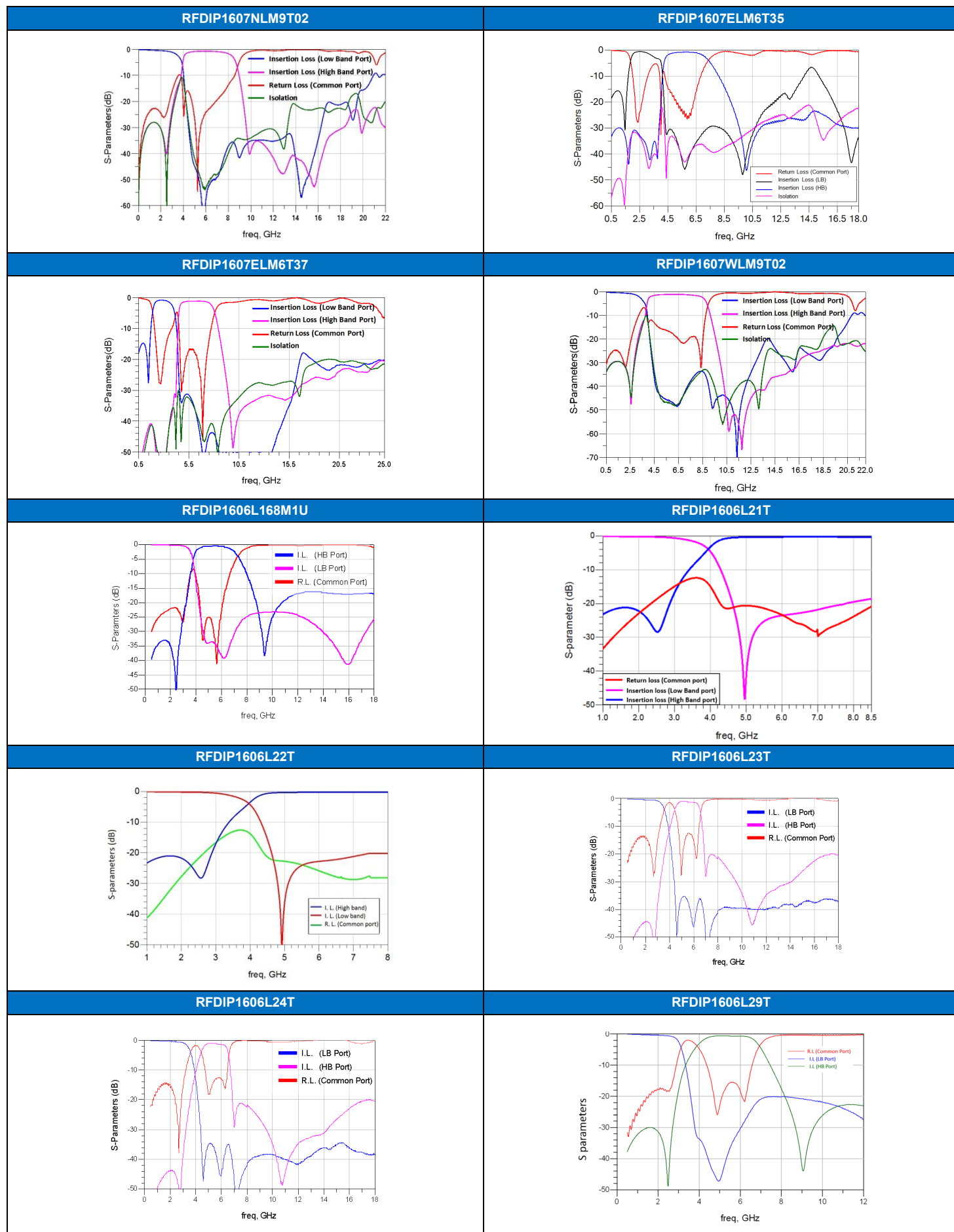
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TYPICAL ELECTRICAL CHARACTERISTICS

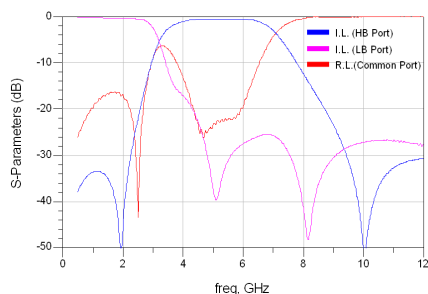


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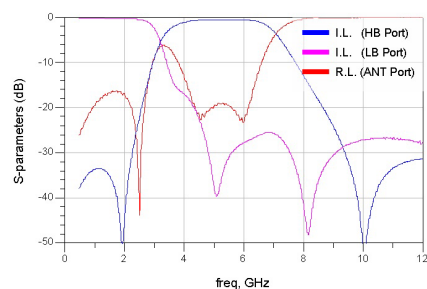


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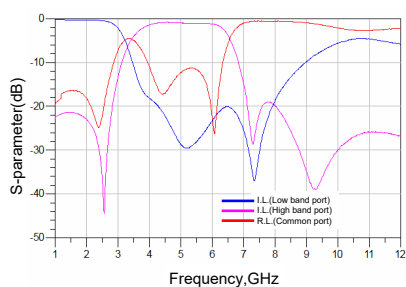
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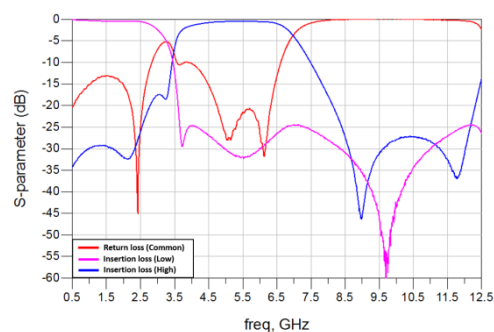
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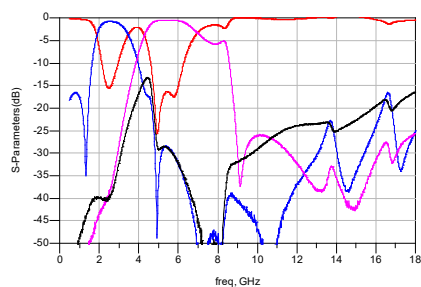
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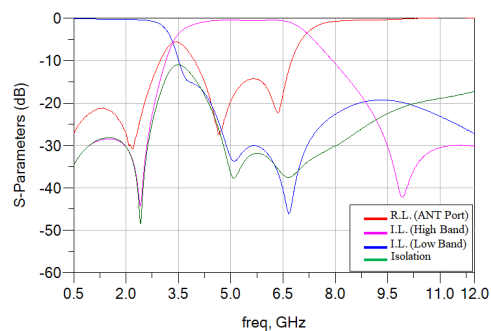
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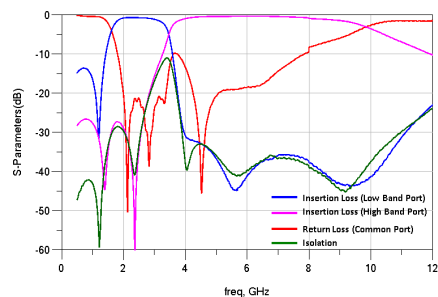
RFDIP1607L898D1T



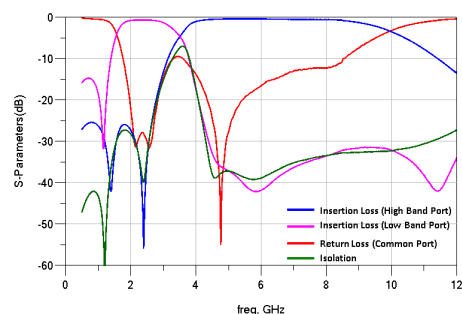
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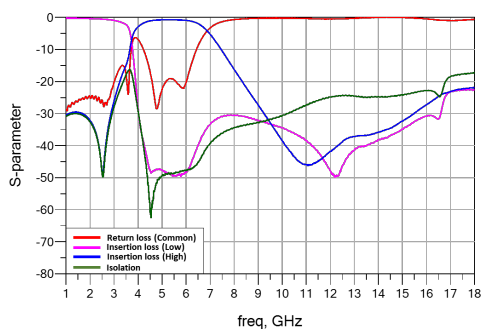
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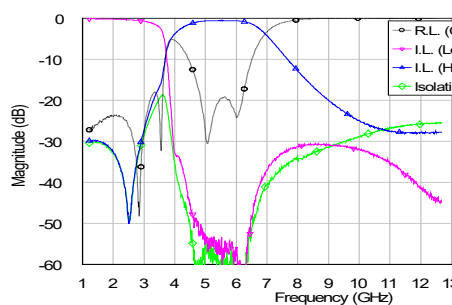
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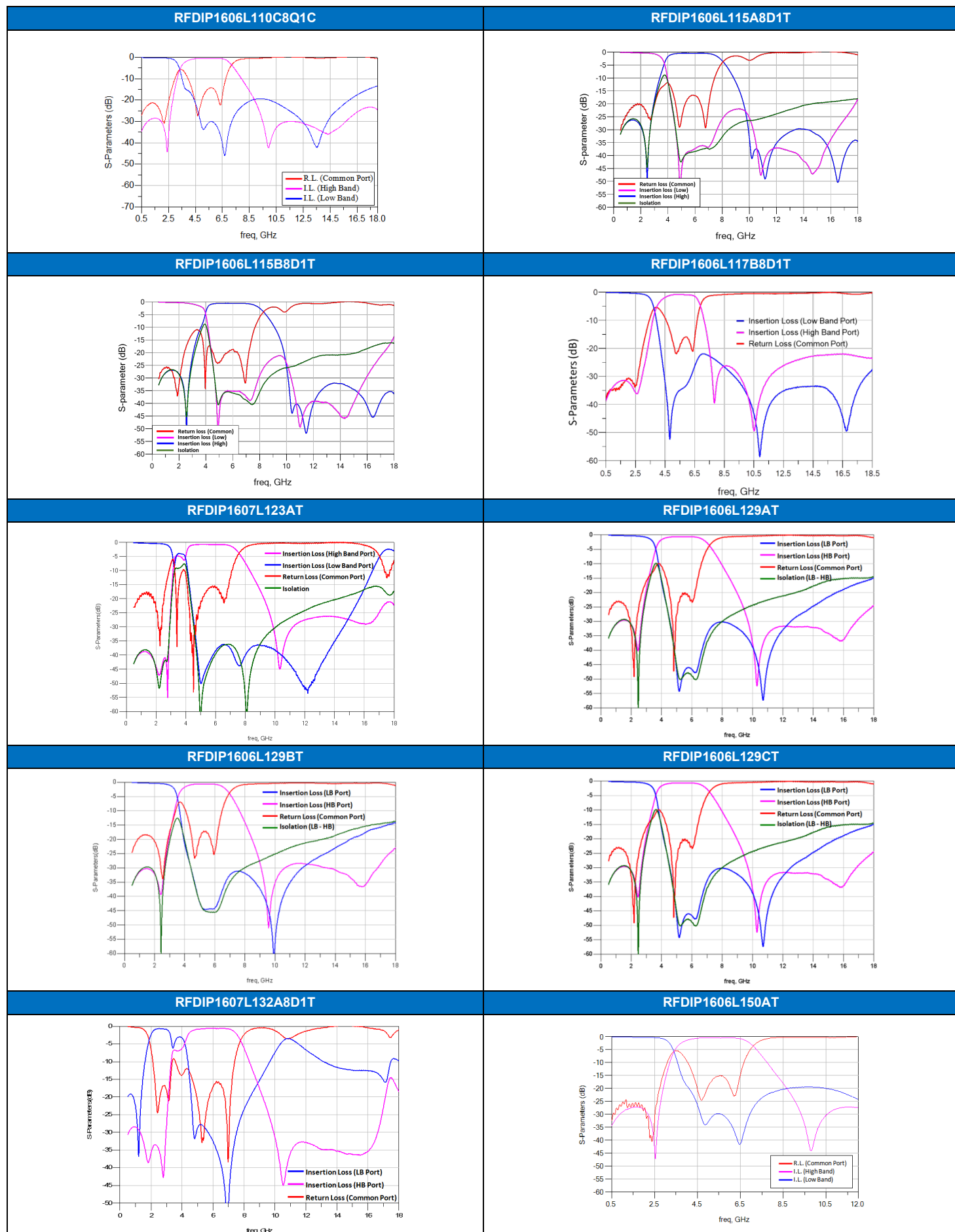
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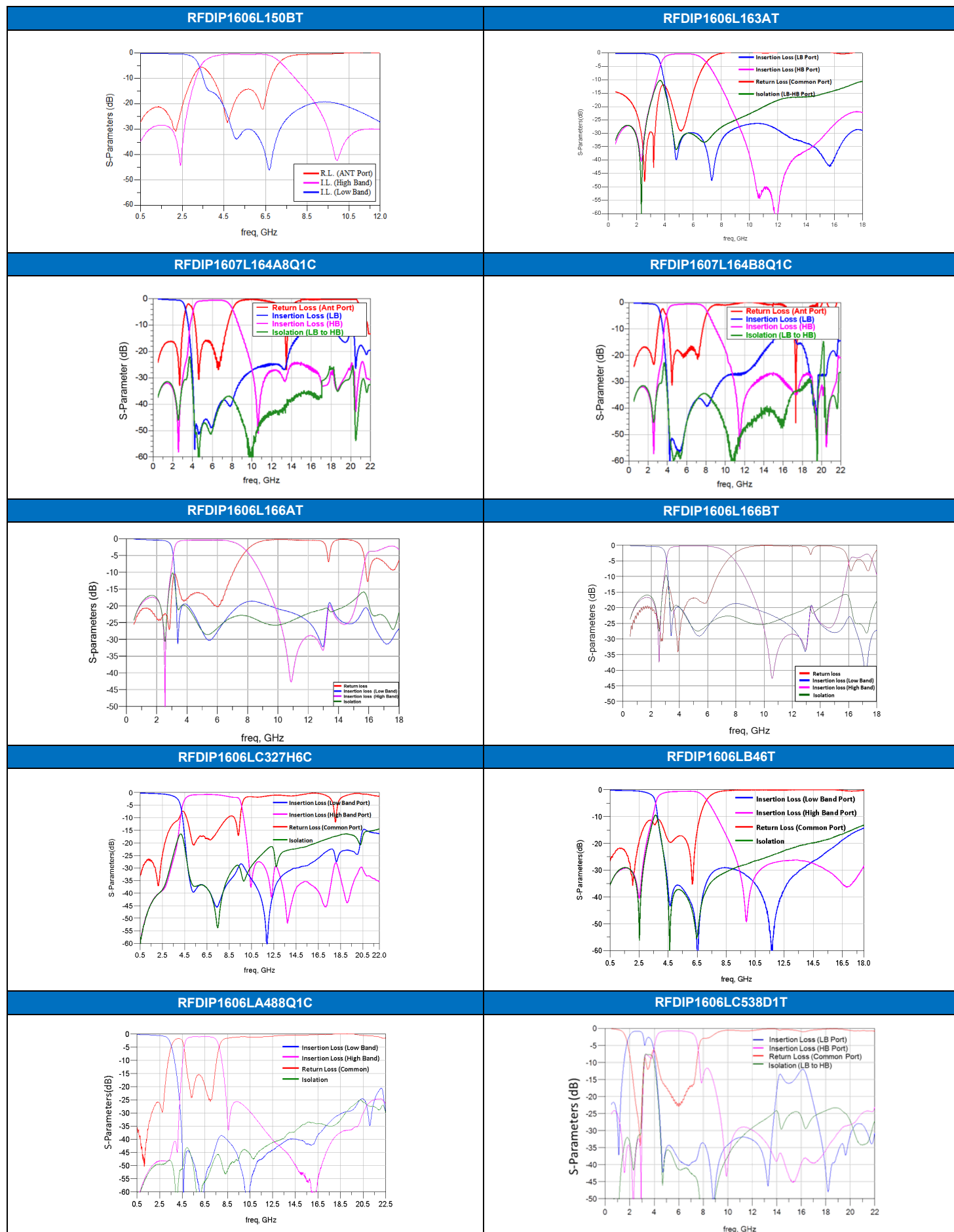
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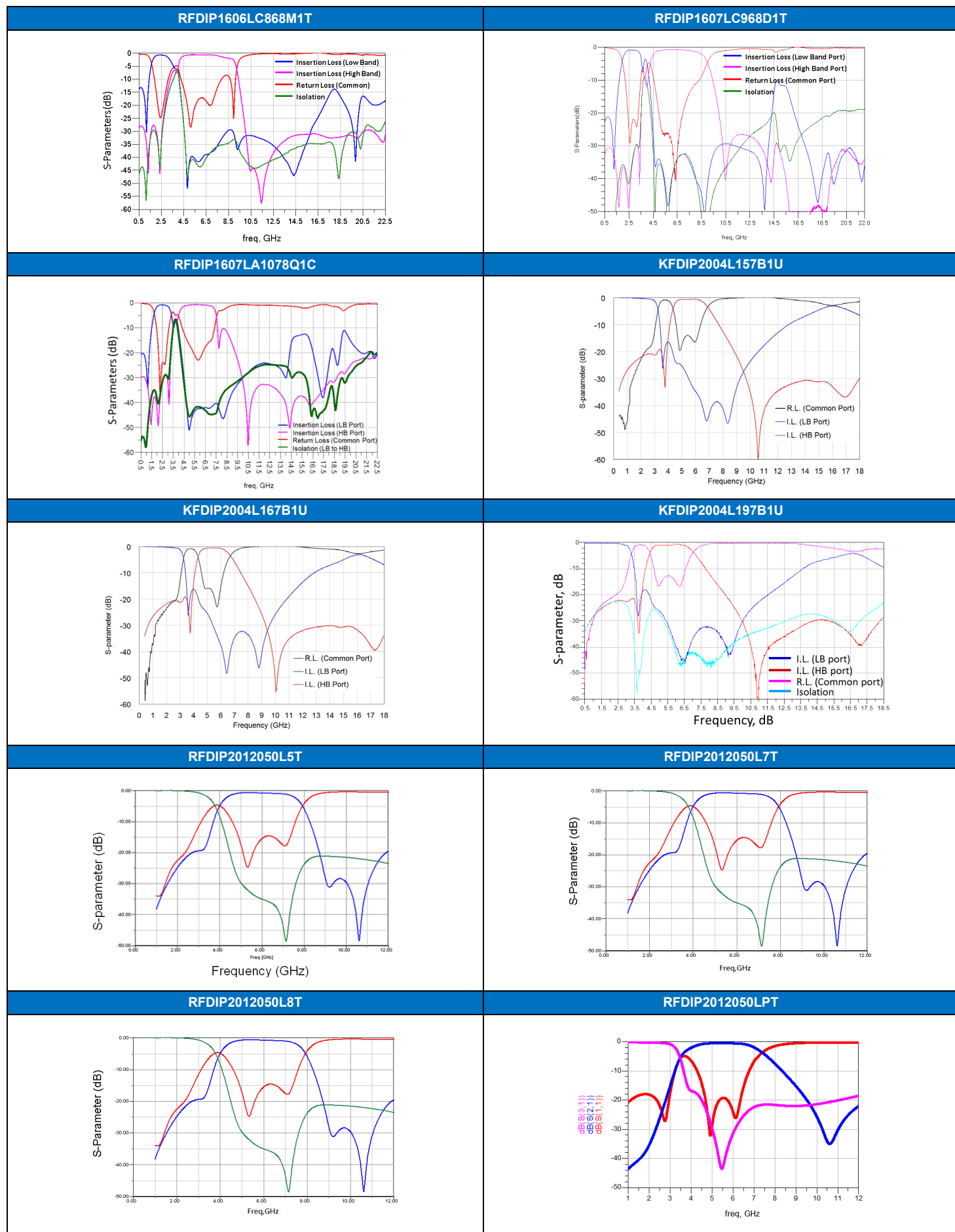
TYPICAL ELECTRICAL CHARACTERISTICS



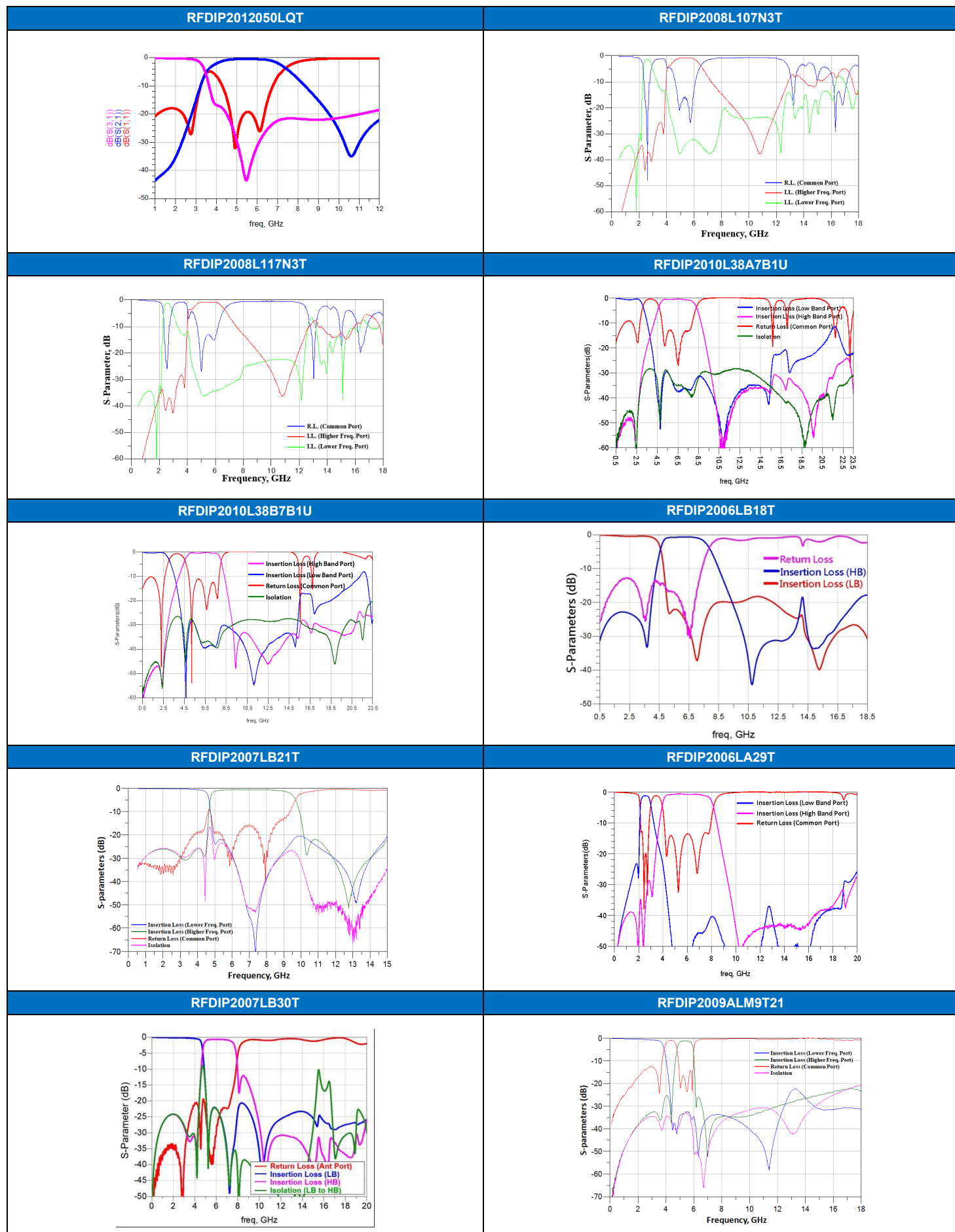
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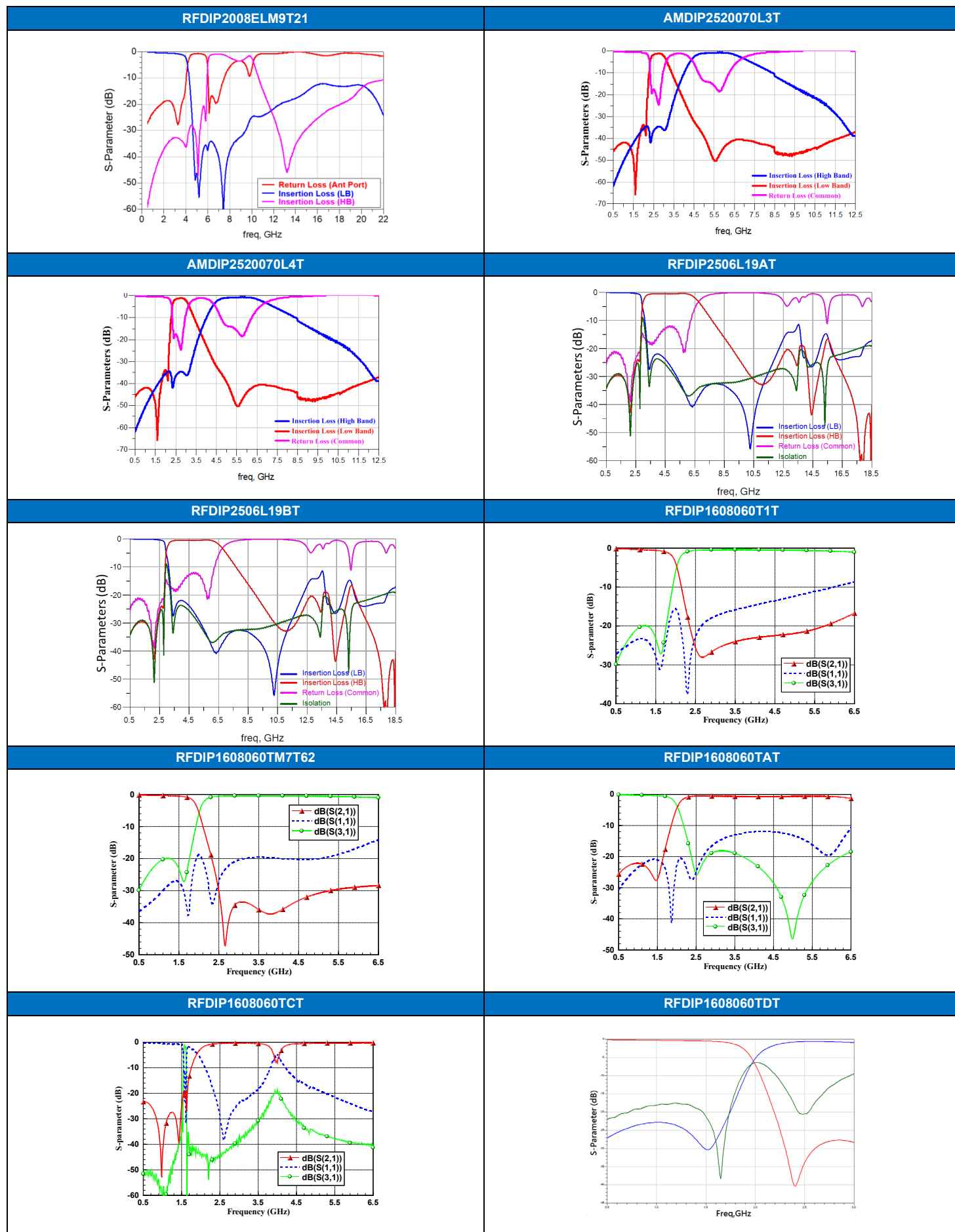
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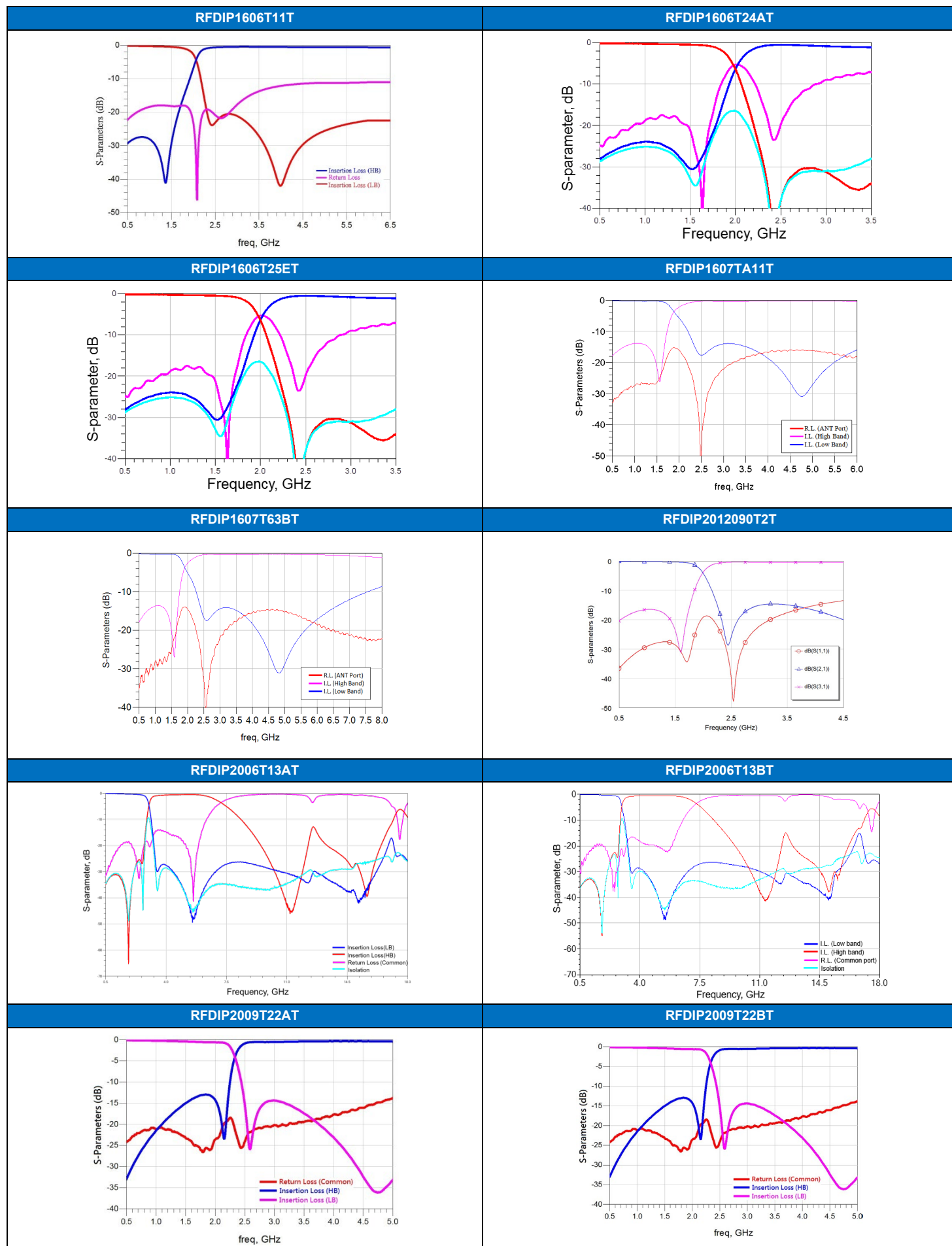
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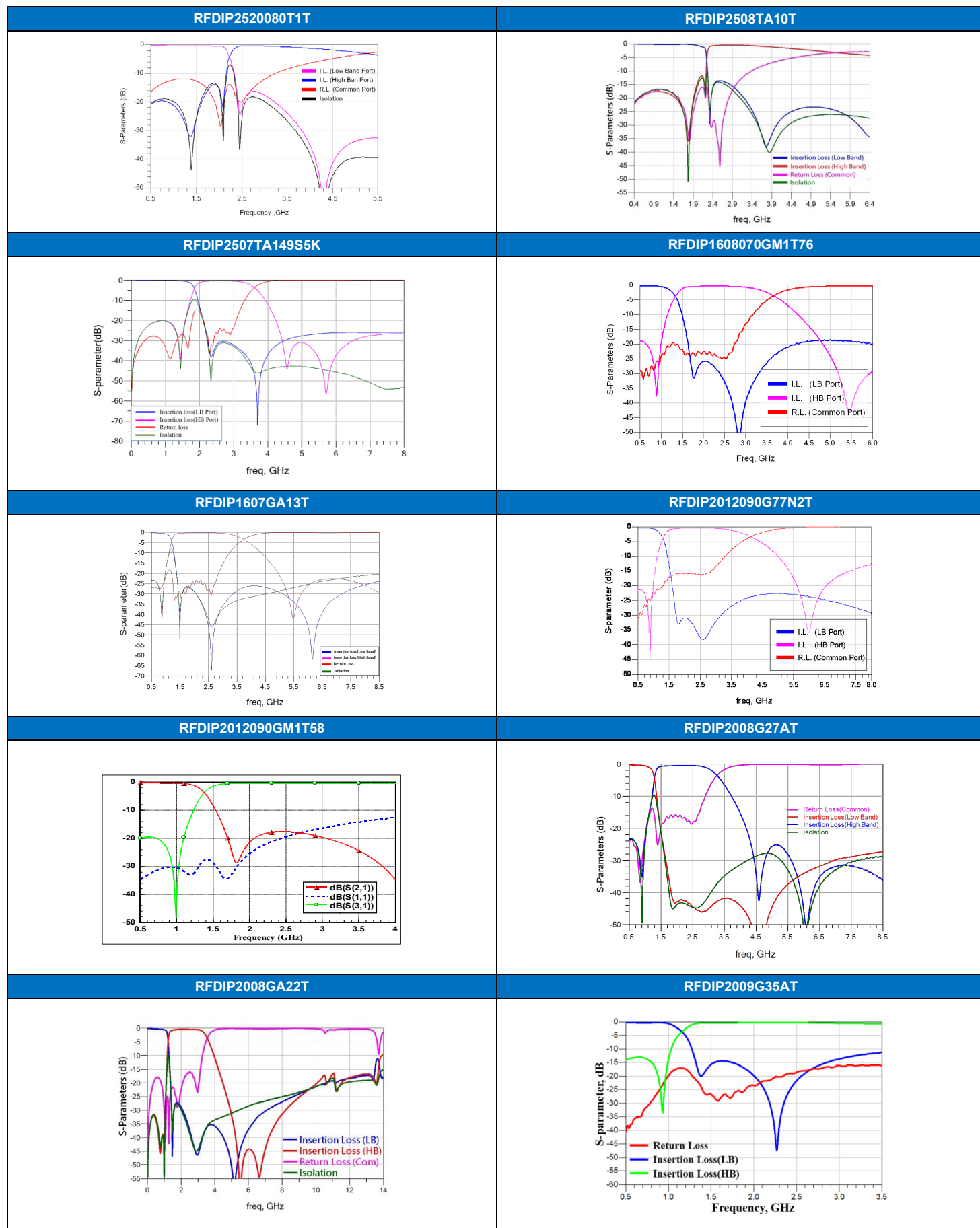
TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



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TRIPLEXER

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A				
	STRUCTURE A-1 	STRUCTURE A-2 	STRUCTURE A-3 	STRUCTURE A-4
STRUCTURE B		STRUCTURE C		

■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F	G
A	2.00±0.15	1.25±0.15	0.90±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	0.20±0.20	0.20±0.20	0.30±0.20
B	2.50±0.15	2.00±0.15	0.90±0.10	0.30±0.10	0.40±0.10	0.55±0.10	0.40±0.10	0.90±0.10	0.30±0.10	0.30±0.10
	2.50±0.15	2.00±0.15	0.65 max.	0.30±0.10	0.40±0.10	0.55±0.10	0.40±0.10	0.90±0.10	0.30±0.10	0.30±0.10
C	2.00±0.15	1.25±0.15	0.75 max.	0.30±0.10	0.20±0.10	0.20±0.10	0.25±0.10	0.10±0.10	0.275±0.075	-

■ ELECTRICAL SPECIFICATION

GPS 1.575GHz/ISM 2.4GHz/5GHz band RF application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFTIP2012090T27N3T	1560~1606	50	0.65(25°C) 0.70(-40~+85°C)	20(2400~2500MHz) 20(4900~6000MHz)	10	-	2.00x1.25x0.90	A-2
	2400~2500	50	0.70(25°C) 0.85(-40~+85°C)	10(860~960MHz) 15(1545~1610MHz) 10(3600~3750MHz) 20(4800~6000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	20(1559~1606 MHz) 20(4800~5000 MHz)		
	4900~5950	50	0.80(25°C) 0.95(-40~+85°C)	25(1559~1606MHz) 35(2400~2500MHz) 12(3400~3600MHz) 12(3600~3900MHz) 10(6900~7200MHz) 10(7200~7800MHz) 25(10300~11700MHz) 15(15300~16200MHz)	10	20(1559~1606 MHz)		

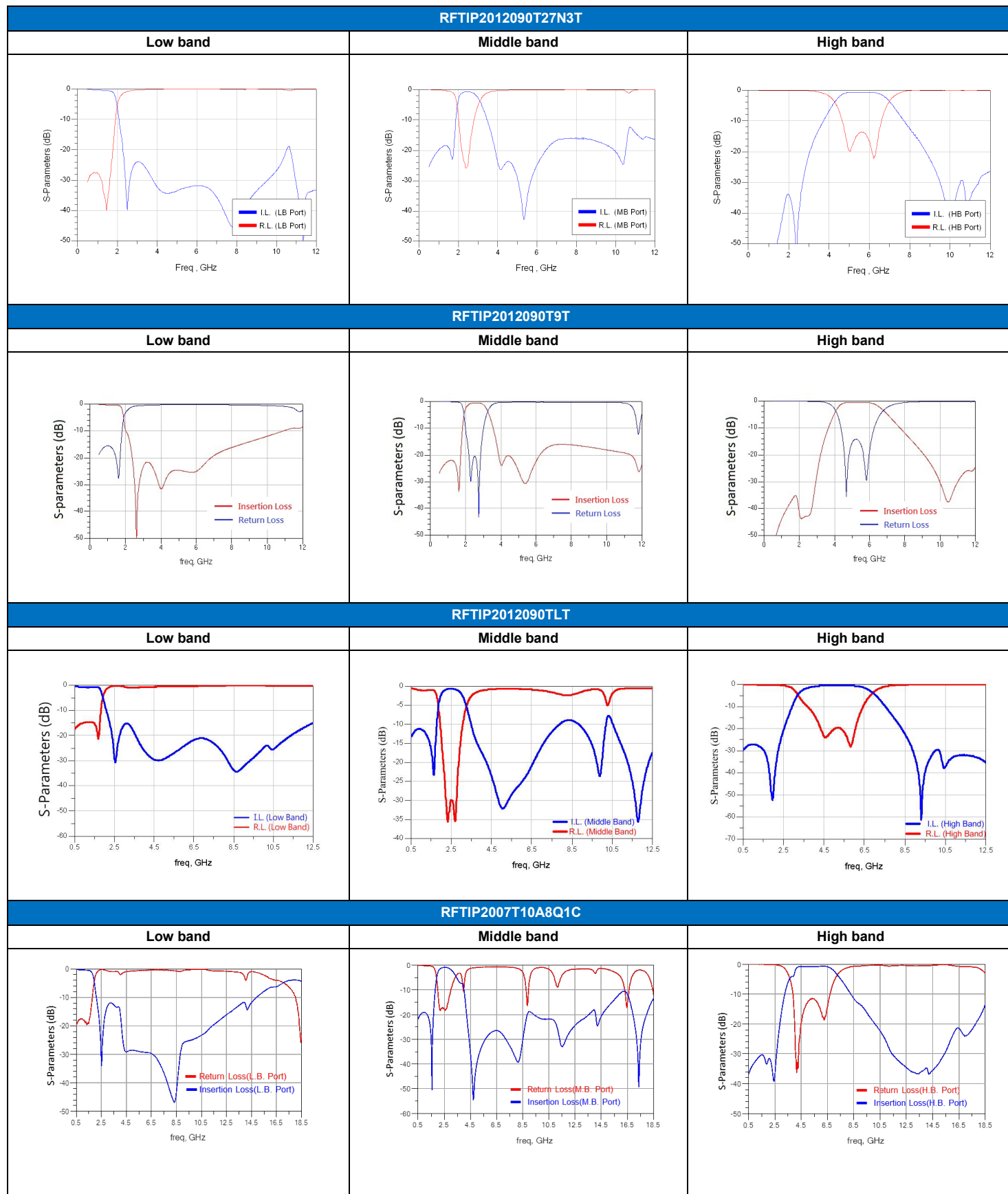
GPS 1.575GHz/ ISM 2.4GHz/5GHz band RF application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFTIP2012090T9T	1560~1606	50	0.7	15(2400~2500MHz) 15(4800~6000MHz)	10	-	2.00x1.25x0.90	A-3
	2400~2500	50	0.8	10(860~960MHz) 15(1545~1605MHz) 8(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10			
	4900~5950	50	0.9	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 38(2400~2500MHz) 8(8100~8800MHz) 15(8820~9800MHz) 22(9800~11900MHz)	10			
RFTIP2012090TLT	1560~1606	50	0.70(25°C) 0.80(-40~+85°C)	14(2400~2500MHz) 15(4800~6000MHz)	10	-	2.00x1.25x0.90	A-1
	2400~2500	50	0.80(25°C) 0.95(-40~+85°C)	10(860~960MHz) 10(1545~1605MHz) 8(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 5(9600~10000MHz))	10			
	4900~5950	50	0.90(25°C) 1.10(-40~+85°C)	24(860~960MHz) 24(1545~1605MHz) 25(1710~1990MHz) 25(2170MHz) 0.2(3920~4720MHz) 10(8100~8800MHz) 14(8820~9800MHz) 20(9800~11900MHz)	10			
RFTIP2007T10A8Q1C	1560~1606	50	0.70(25°C) 0.90(-40~+85°C)	0.9(1710~1980MHz) 18(2400~2500MHz) 24(4900~5950MHz)	10	30(2400~2500MHz) 17(4900~5950MHz)	2.00x1.25x0.75	C
	2400~2500	50	1.05(25°C) 1.25(-40~+85°C)	23(1506~1606MHz) 30(4800~5000MHz) 28(7200~7500MHz)	10	30(1560~1606MHz) 25(4900~5950MHz)		
	4900~5100 5150~5950	50	0.90(25°C) 1.10(-40~+85°C) 1.10(25°C) 1.20(-40~+85°C)	28(1560~1606MHz) 20(10300~11700MHz) 16(15300~16200MHz)	10	20(1560~1606MHz) 17(2400~2500MHz)		
RFTIP2007T16AT	1560~1606	50	0.60(25°C) 0.70(-40~+85°C)	19(2400~2500MHz) 27(4900~5950MHz)	10	19(2400~2500MHz) 27(5150~5950MHz)	2.00x1.25x0.75	C
	2400~2500	50	1.00(25°C) 1.15(-40~+85°C)	20(1559~1606MHz) 30(4800~5000MHz) 15(7200~7500MHz)	10	25(1559~1606MHz) 30(5150~5950MHz)		
	4900~5150 5150~5950	50	1.40(25°C) 1.60(-40~+85°C) 1.30(25°C) 1.50(-40~+85°C)	25(1559~1606MHz) 34(2400~2500MHz) 12(3400~3600MHz) 12(3600~3900MHz) 10(6900~7200MHz) 10(7200~7800MHz) 25(10300~11700MHz) 15(15300~16200MHz)	10	25(1559~1606MHz) 30(2400~2500MHz)		

GPS 1.575GHz/ ISM 2.4GHz/5GHz band RF application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFTIP2009T24AT	1560~1610	50	0.70(25°C) 0.90(-40~+85°C)	13(2400~2500MHz) 13(4900~5950MHz)	10	-	2.00x1.25x0.90	A-4
	2400~2500	50	0.60(25°C) 0.85(-40~+85°C)	13(1560~1610MHz) 13(4900~5950MHz)	10			
	4900~5950	50	0.80(25°C) 1.00(-40~+85°C)	20(1560~1610MHz) 25(2400~2500MHz) 20(9800~11900MHz)	10			
RFTIP2009T27BT	1560~1606	50	0.70(25°C) 0.80(-40~+85°C)	14(2400~2500MHz) 15(4800~6000MHz)	10	18(2400~2500MHz) 18(5150~5850MHz)	2.00x1.25x0.90	A-1
	2400~2500	50	0.73(25°C) 0.81(-40~+85°C)	10(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	15(1560~1610MHz) 20(5150~5850MHz)		
	4900~5950	50	0.80(25°C) 0.92(-40~+85°C)	24(860~960MHz) 24(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)	10	20(1560~1610MHz) 20(2400~2500MHz)		
RFTIP2009T28AT	1560~1606	50	0.70(25°C) 0.90(-40~+85°C)	14(2400~2500MHz) 15(4800~6000MHz)	10	18(2400~2500MHz) 18(5150~5850MHz)	2.00x1.25x0.90	A-2
	2400~2500	50	0.73(25°C) 0.93(-40~+85°C)	10(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	15(1560~1610MHz) 20(5150~5850MHz)		
	4900~5950	50	0.80(25°C) 1.00(-40~+85°C)	24(860~960MHz) 24(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)	10	20(1560~1610MHz) 20(2400~2500MHz)		
RFTIP2506T10A8Q1C	500~960	50	0.54(500~798 MHz) 0.60(815~894 MHz) 0.63(880~915 MHz) 0.65(915~960 MHz)	12.0(1427~2690MHz) 24.0(3300~3400MHz) 27.0(3400~3800MHz) 30.0(3800~4200MHz) 30.0(4400~5000MHz) 30.0(5150~5925MHz)	10	17.0(500~960MHz) 14.0(1427~2690MHz) 14.0(3300~5925MHz)	2.00x1.25x0.60	B
	1427~2690	50	1.00(1427~1511 MHz) 0.85(1710~1880 MHz) 0.85(1880~1920 MHz) 0.85(1930~2200 MHz) 0.85(2300~2400 MHz) 1.00(2496~2690 MHz)	18.0(500~960MHz) 9.0(3300~3400MHz) 20.0(3400~3800MHz) 20.0(3800~4200MHz) 24.0(4400~5000MHz) 21.0(5150~5925MHz)	10	20.0(500~960MHz) 30.0(1427~2690MHz) 30.0(3300~5925MHz)		
	3300~5925	50	1.45(3300~3400 MHz) 0.95(3400~3600 MHz) 0.80(3600~3800 MHz) 0.70(3800~4200 MHz) 0.70(4400~5000 MHz) 0.80(5150~5925 MHz)	20.0(500~960MHz) 11.0(1427~2690MHz) 14.0(10300~11850MHz)	10	30.0(500~960MHz) 14.0(1427~2690MHz) 11.0(3300~5925MHz)		
RFTIP2520090T3T	698~960	50	0.70(25°C) 0.80(-40~+85°C)	20(1710~2200 MHz) 20(2500~2690 MHz)	10	20(1710~2200 MHz) 20(2500~2690 MHz)	2.50x2.00x0.90	B
	1710~2200	50	1.40(25°C) 1.60(-40~+85°C)	20(698~960 MHz) 15(2500~2690 MHz)	10	18(698~960 MHz) 18(2500~2690 MHz)		
	2500~2690	50	1.80(25°C) 2.00(-40~+85°C)	15(698~960 MHz) 15(1710~2200 MHz)	10	20(698~960 MHz) 20(1710~2200 MHz)		

TYPICAL ELECTRICAL CHARACTERISTICS



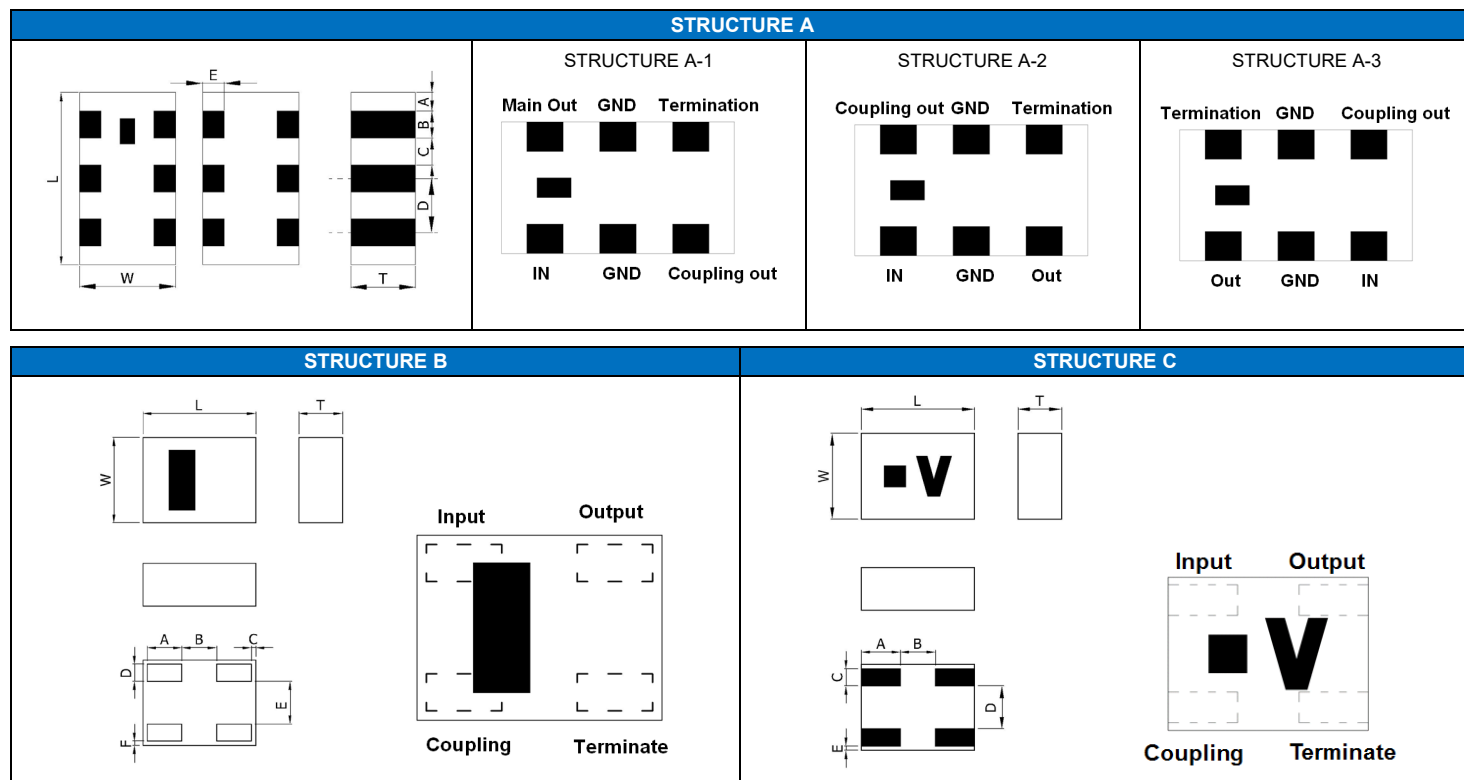
TYPICAL ELECTRICAL CHARACTERISTICS



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COUPLER

■ STRUCTURE AND PIN ASSOCIATED



■ STRUCTURE AND DIMENSION

Unit: mm

Structure/ Dimension	L	W	T	A	B	C	D	E	F
A	1.60±0.10	0.80±0.10	0.60±0.10	0.10±0.10	0.30±0.10	0.25±0.10	0.55±0.10	0.20±0.10	-
	1.60±0.10	0.80±0.10	0.60±0.10	0.175±0.10	0.25±0.10	0.25±0.10	0.50±0.10	0.20±0.10	-
B	0.65±0.04	0.50±0.04	0.35±0.10	0.20±0.04	0.20±0.04	0.025±0.025	0.10±0.04	0.25±0.04	0.025±0.025
C	0.65±0.10	0.50±0.10	0.35±0.05	0.225±0.10	0.20±0.05	0.10±0.05	0.25±0.05	0.025±0.025	-

■ ELECTRICAL SPECIFICATION

ISM Band 2.4GHz Application

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm ³)	Structure
RFCPL1806B2450T	2400~2500	1.83	6.5 ± 1.0 dB	-	21.0 dB min	1.5	1.60x1.80x0.60	A-1
RFCPL1810B2450T	2400~2500	0.74	10.0 ± 1.0 dB	-	22.0 dB min	1.8	1.60x1.80x0.60	A-1
TFCPL0605B24508Q1C	2400~2500	0.32(25°C) 0.40(-40~+85°C)	14.6 ± 1.0 dB	20.0 dB min.	-	1.3	0.60x0.50x0.35	B

5GHz BAND WORKING FREQUENCY

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm ³)	Structure
RFCPL0605030K0T	5925~7125	0.4(25°C) 0.60(-40~+85°C)	17 ± 1.5 dB	15 dB min.	-	1.5	0.65x0.50x0.35	C

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm ³)	Structure
TFCPL0605030L18A1U	2400~2500	0.5	19.0±1.5dB	15 dB min.	-	1.3	0.65x0.50x0.35	B
	4900~5850	0.5	12.5±1.5dB	15 dB min.	-	1.3		
TFCPL0605030L28Q1C	2400~2500	0.2	19.3±0.7dB	15 dB min.	-	1.3	0.65x0.50x0.35	B
	5150~5850	0.5	13.0±1.5dB	15 dB min.	-	1.3		
RFCPL0605030L58Q1C	2400~2500	0.3	19.0±1.5dB	14.5 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.6	13.0±2.0dB	13.5dB min.	-	1.8		

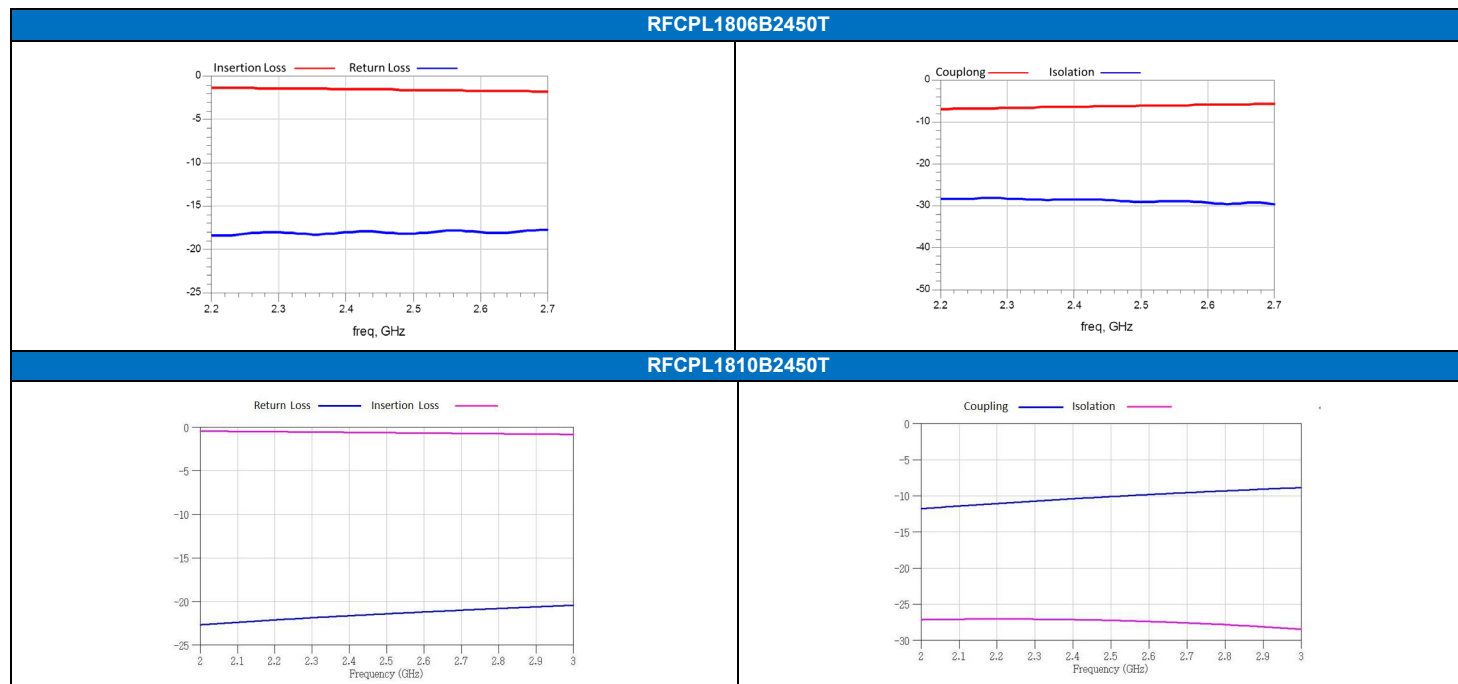
ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm ³)	Structure
RFCPL0605030L6T	2400~2500	0.40(25°C) 0.45(-40~+85°C)	21.5±1.5dB	15 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.40(25°C) 0.45(-40~+85°C)	15.0±1.5dB	15 dB min.	-	1.3		
RFCPL0605030L9T	2400~2500	0.20(25°C) 0.25(-40~+85°C)	19.3±0.7dB	15 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.50(25°C) 0.55(-40~+85°C)	13.0±1.5dB	15 dB min.	-	1.3		
RFCPL0605030LFT	2400~2500	0.22(25°C) 0.24(-40~+85°C)	21.5±1.0dB	14 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.32(25°C) 0.35(-40~+85°C)	15.0±1.2dB	14 dB min.	-	1.3		
RFCPL0605030LHT	2400~2500	0.40(25°C) 0.45(-40~+85°C)	21.5±1.5dB	15 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.40(25°C) 0.45(-40~+85°C)	15.0±1.5dB	15 dB min.	-	1.3		

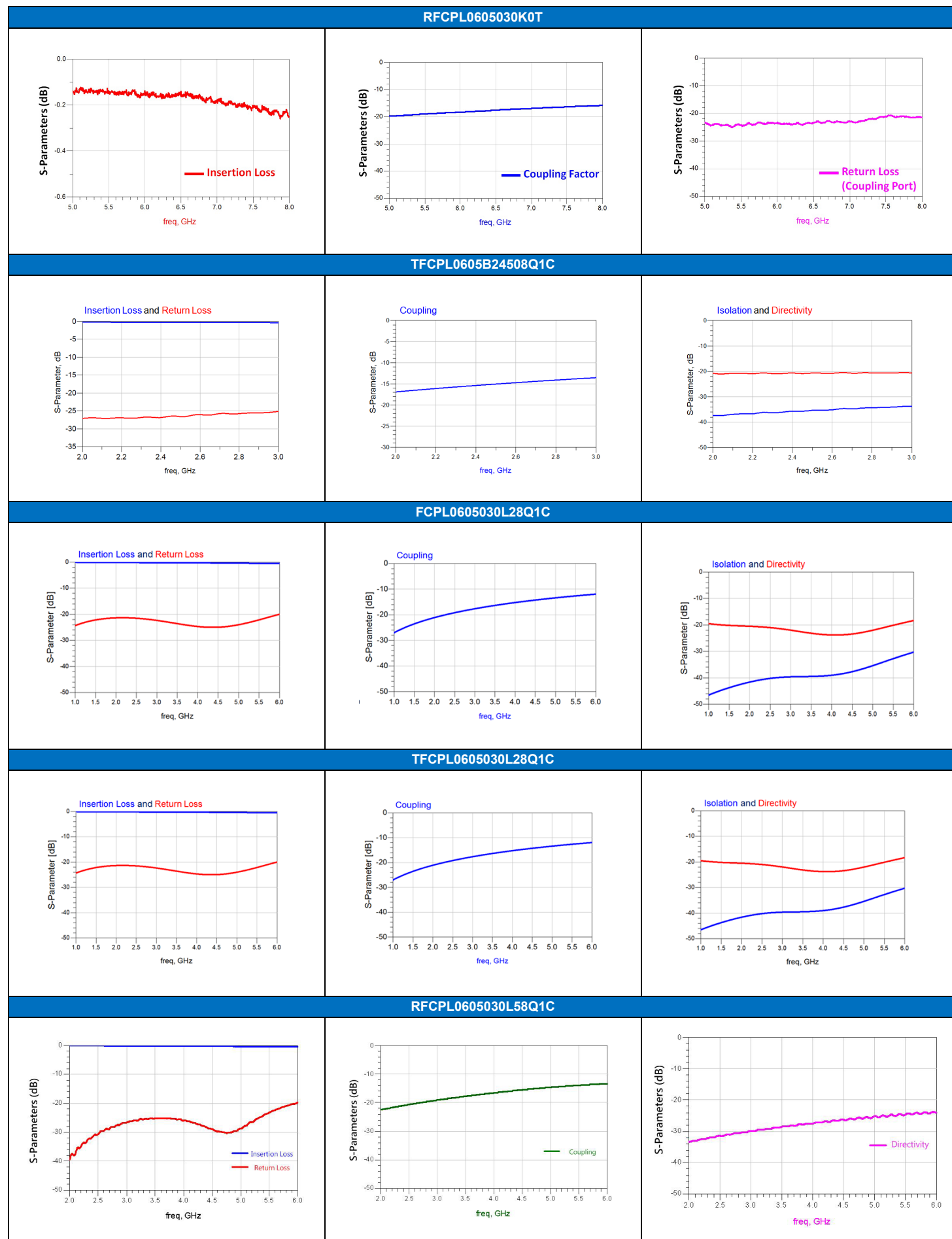
LTE BAND APPLICATION

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm ³)	Structure
RFCPL1608070P08Q1C	698~2690	0.20(698~960MHz) 0.22(1427.9~2170MHz) 0.25(2300~2690MHz)	23.0~27.0(698~915MHz) 21.5~26.5(1427.9~2025MHz) 22.5~27.5(2300~2620MHz)	20.	-	1.5	1.60x1.80x0.60	A-2
RFCPL1608070P28Q1C	698~2690	0.20(698~960MHz) 0.22(1427.9~2170MHz) 0.25(2300~2690MHz)	23.0~27.0(698~915MHz) 21.5~26.5(1427.9~2025MHz) 22.5~27.5(2300~2620MHz)	20	-	1.5	1.60x1.80x0.60	A-2
RFCPL1608070P38Q1C	698~2690	0.20(698~960MHz) 0.22(1710~2170MHz) 0.25(2300~2690MHz)	23.0~27.0(698~915MHz) 21.5~26.5(1710~2025MHz) 22.5~27.5(2300~2620MHz)	20	-	1.45	1.60x1.80x0.60	A-3
RFCPL1608070PM9T16	700~2700	0.2(700~790MHz) (Typ.0.07) 0.2(820~900MHz) (Typ.0.07) 0.3(1701~2100MHz) (Typ.0.15) 0.3(2300~2700MHz) (Typ.0.15)	24~27(700~790MHz) 24~27(820~900MHz) 20~23(1701~2100MHz) 20~23(2300~2700MHz)	-	40(700~790MHz) 40(820~900MHz) 35(1701~2100MHz) 35(2300~2700MHz)	1.45	1.60x1.80x0.60	A-1

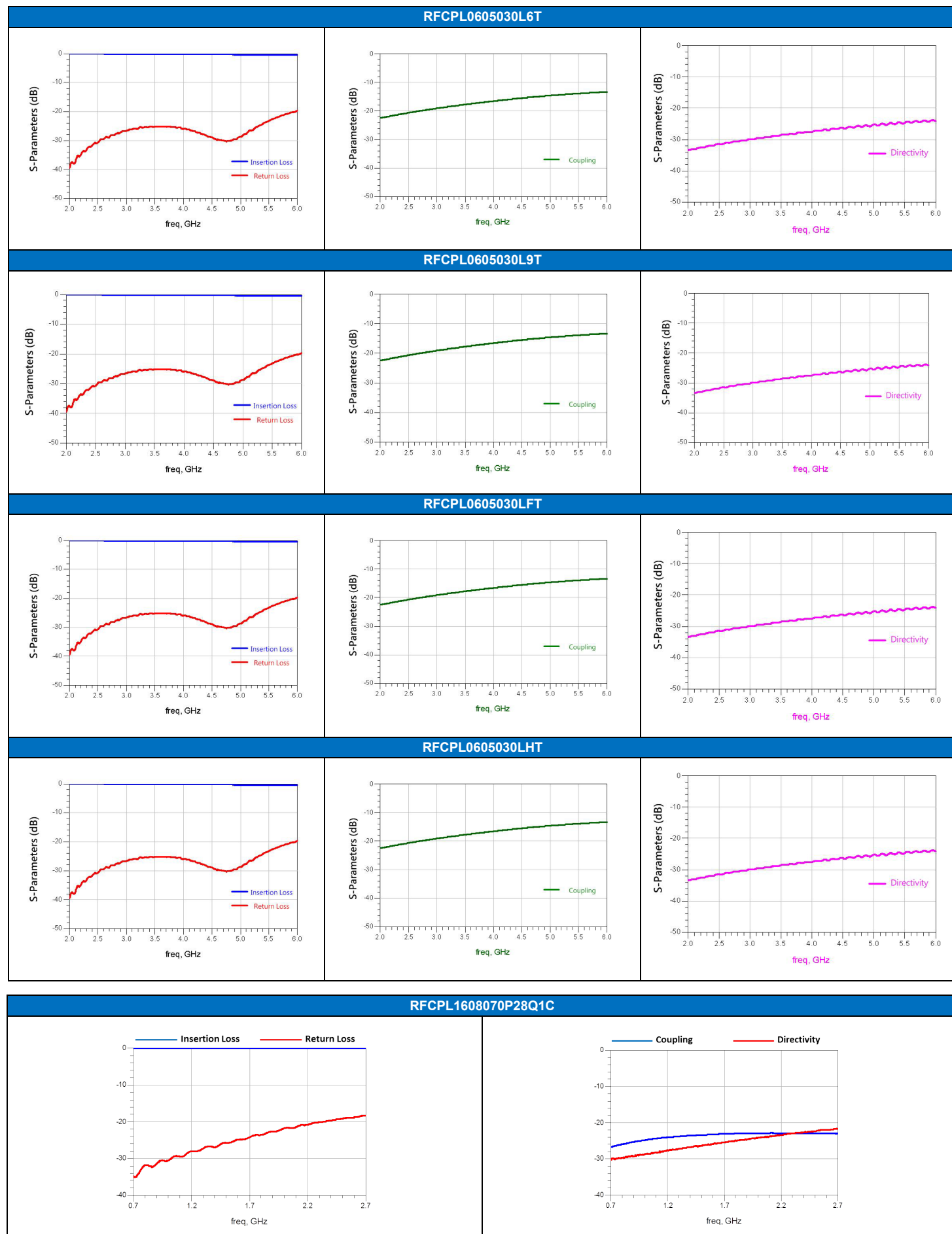
TYPICAL ELECTRICAL CHARACTERISTICS



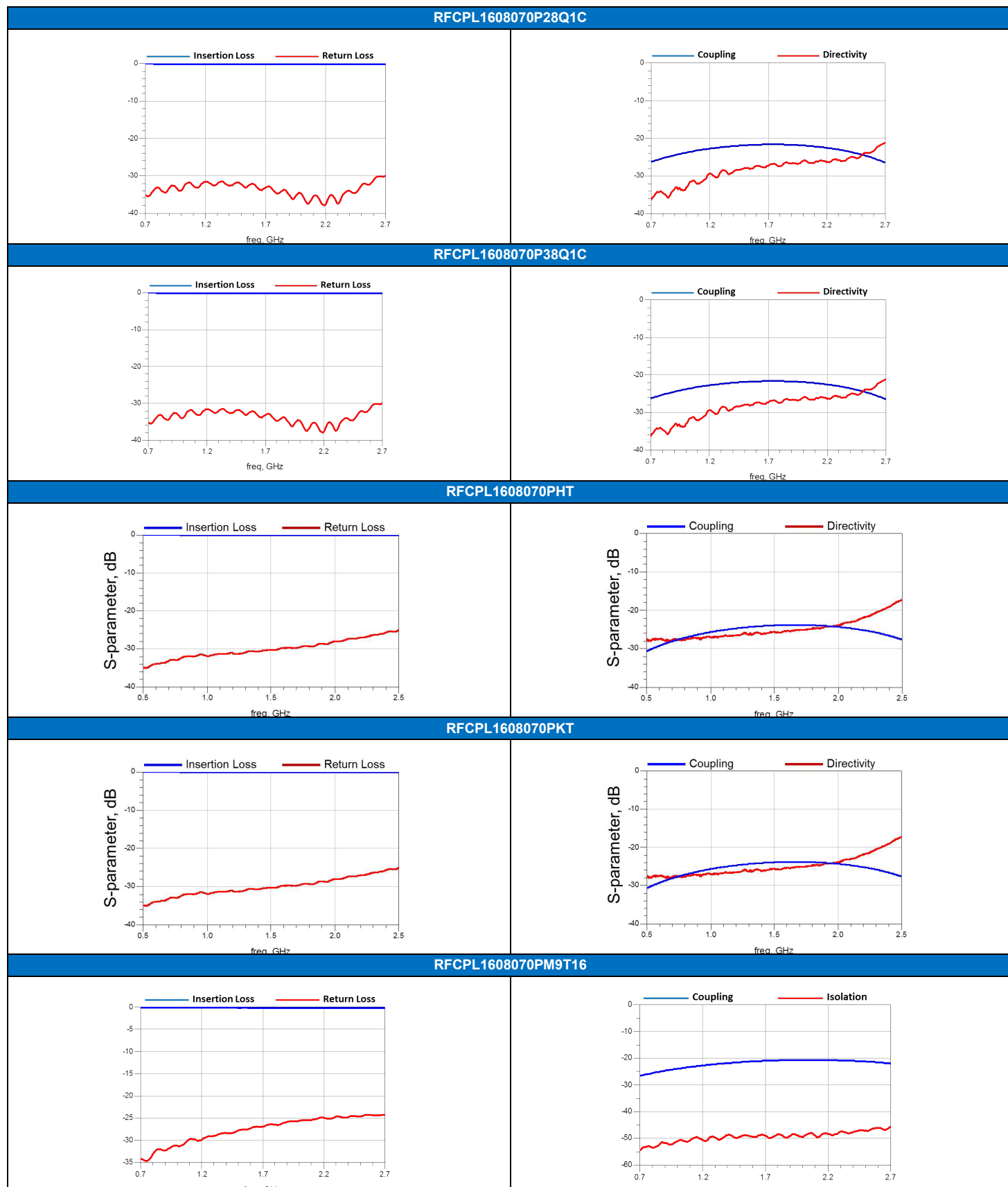
TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



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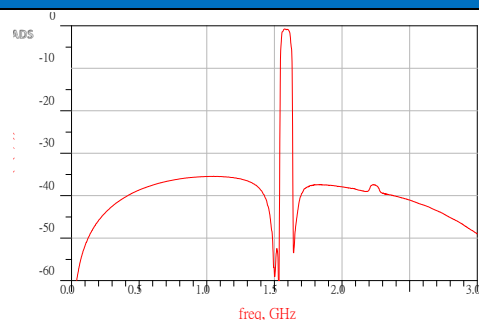
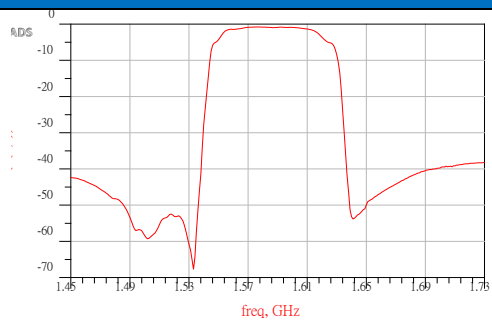
SAW Filter

■ ELECTRICAL SPECIFICATION

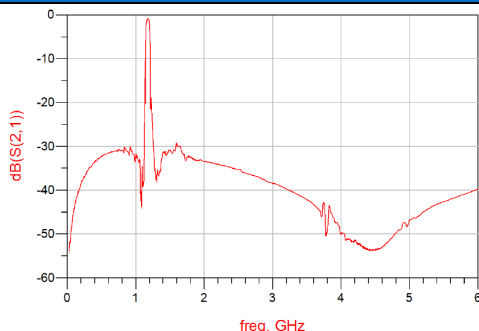
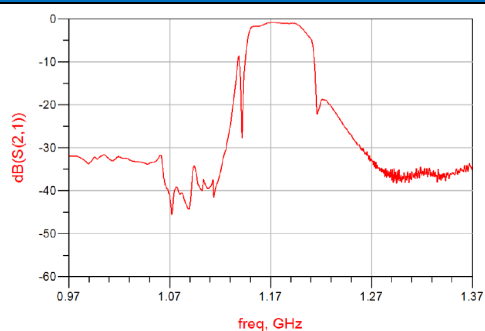
Application	Function	Pmax(dBm)	Part Number	Band	Frequency(MHz)	Insertion Loss(dB/dB _{INT}) Typ	Package (mm)
GPS/Wifi	SAW Filter	15	SF11091582CT01T	GPS+G+C	1559~1563 1574~1576 1597~1605	1.5 dB @1559~1563MHz 1.0 dB @1574~1576MHz 1.5 dB @1597~1605MHz	1.1 x 0.9
	SAW Filter	15	SF11091176CT01T	GPS_L5	1164~1189	1.0 dB @1164~1189MHz	1.1 x 0.9
	SAW Duplexer	15	BF151G51G1T11T	GPS_L1+L5	1559.05~1605.89 1164~1189	2.1 dB @1559.05~1563.15MHz 2.0 dB @1574.39~1576.45MHz 2.3 dB @1597.55~1605.89MHz 1.4 dB @1164~1189MHz	1.5 x 1.1
WiFi	SAW Filter	25	SF11092442AT01T	WiFi 2.4	2401~2483	1.6 dB @2402~2421MHz 1.7 dB @2407~2471MHz 1.8 dB @2457~2476MHz 2.0 dB @2462~2482MHz 2.0 dB @2401~2483MHz	1.1 x 0.9
	SAW Filter	25	SF11092442AE02T	WiFi 2.4 (co-exists B7/40/41)	2401~2483	1.6 dB _{INT} @2401~2483MHz	1.1 x 0.9
	SAW Filter	25	SF11092442AE03T	WiFi 2.4 (co-exists B7/40/41)	2402.5~2481.5	1.8 dB @2402.5~2481.5MHz	1.1 x 0.9
	SAW Filter	25	SF11092437AE01T	WiFi 2.4 (co-exists B7/40/41)	2402~2472	2.3 dB @2402~2472MHz	1.1 x 0.9
	SAW Filter	25	SF11092442AT03T	WiFi 2.4 (co-exists B7/40/41)	2401~2483	2.3 dB @2402~2480MHz 2.6 dB @2401~2483MHz	1.1 x 0.9
TDD LTE	SAW Filter	29	SF112350B40T01T	B40	2300~2400	1.9 dB @2300~2400MHz	1.1 x 0.9
	Saw Filter	15	SF112350B40T02T	B40	2300~2400	1.8 dB @2300~2400MHz	1.1 x 0.9
	Saw Filter	30	SF112595B41T02T	B41 (120M)	2535~2655	2.0 dB @2535~2655MHz	1.1 x 0.9
	Saw Filter	15	SF112595B41T01T	B41F (194M)	2496~2690	2.3 dB @2496~2690MHz 2.3 dB @2500~2570MHz 1.4 dB @2570~2620MHz 1.8 dB @2535~2655MHz	1.1 x 0.9
FDD LTE	Saw Filter	15	SF110881B5T01T	B5	869~894	1.3 dB @869~894MHz	1.1 x 0.9
	Saw Filter	15	SF112665B7T01T	B7	2620~2690	1.9 dB @2620~2690MHz	1.1 x 0.9
	Saw Filter	15	SF111962B25T01T	B25	1930~1994	2.4 dB @1930~1994MHz	1.1 x 0.9
	Saw Filter	15	SF110876B26T01T	B26	859~894	2.0 dB @859~894MHz	1.1 x 0.9
	Saw Duplexer	29	DF182140B1T01T	B1	1992.5~1977.5 2112.5~2167.5	1.7 dB @1992.5~1977.5MHz 1.9 dB @2112.5~2167.5MHz	1.8 x 1.4
	Saw Duplexer	30	DF181747B3T01T	B3	1710~1785 1805~1880	1.7 dB @1710~1785MHz 1.9 dB @1805~1880MHz	1.8 x 1.4
	Saw Duplexer	29.5	DF180836B5T01T	B5	824~849 869~894	1.4 dB @826.5~846.5MHz 1.8 dB @871.5~891.5MHz	1.8 x 1.4
	Saw Duplexer	29.9	DF180897B8T01T	B8	880.25~914.75 925.25~959.75	1.9 dB @880.25~914.75MHz 1.9 dB @925.25~959.75MHz	1.8 x 1.4
	Saw Duplexer	30	DF181882B25T01T	B25	1850~1915 1930~1995	2.1 dB @1850~1915MHz 2.6 dB @1930~1995MHz	1.8 x 1.4
	SAW Quadplexer	30	QF2016CS9LT10T	B25+60+70	1850.25~1914.75 1930.25~2019.75 1695.25~1779.75 2110.25~2199.75	2.5 dB @1852.5~1912.5MHz 2.5 dB @1932.5~1992.5MHz 1.8 dB @1697.5~1707.5MHz 1.8 dB @2112.5~2197.5MHz	2.0 x 1.6
	SAW Diplexer	17	BF15915866E01T	Lora	863~870 902~928	2.0 dB @863~870MHz 2.0 dB @902~928MHz	1.5 x 1.1

TYPICAL ELECTRICAL CHARACTERISTICS

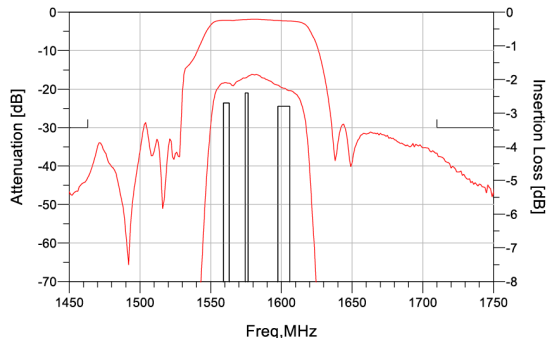
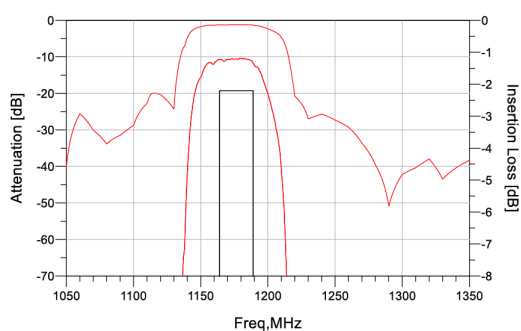
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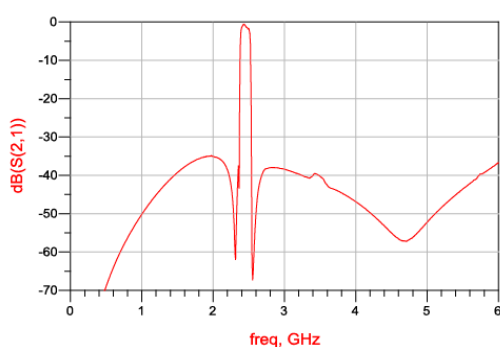
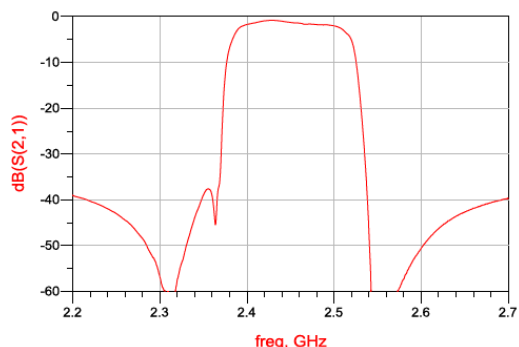
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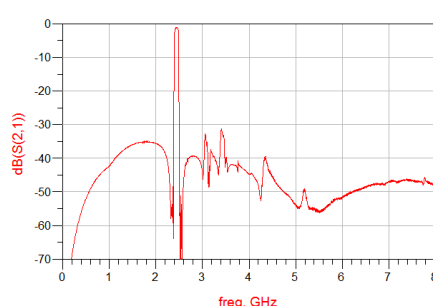
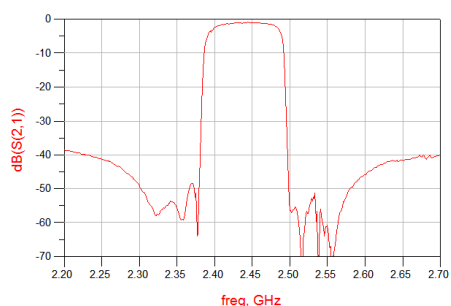
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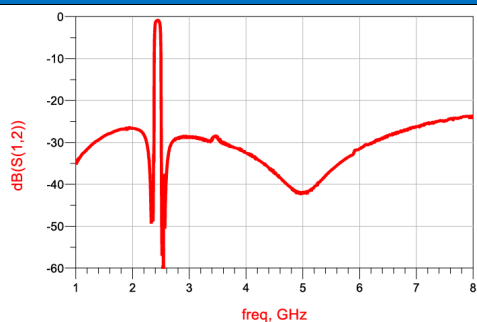
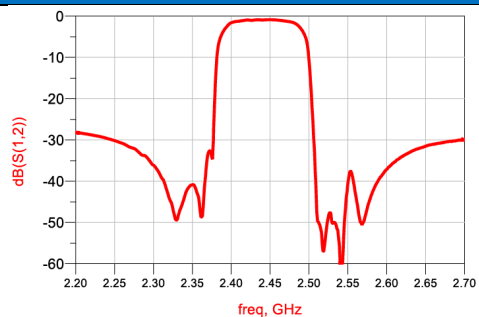


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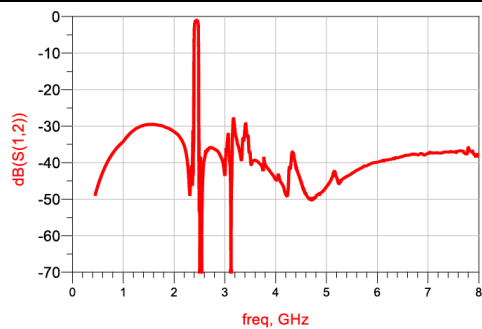
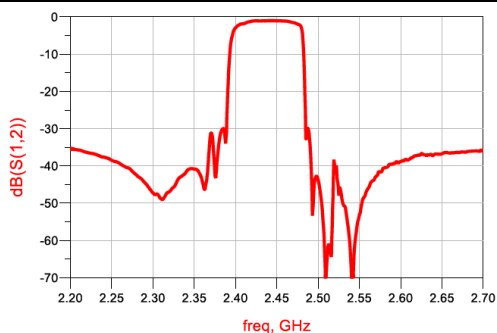


TYPICAL ELECTRICAL CHARACTERISTICS

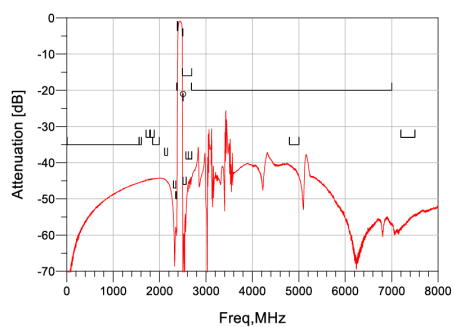
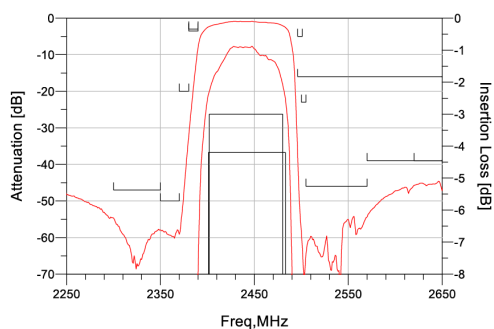
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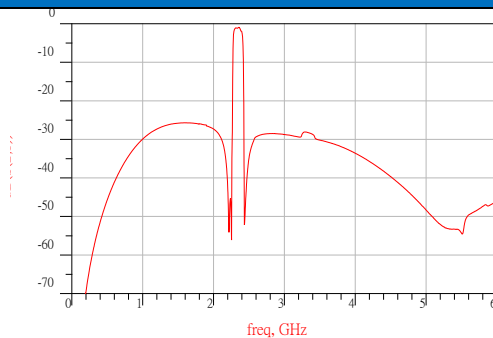
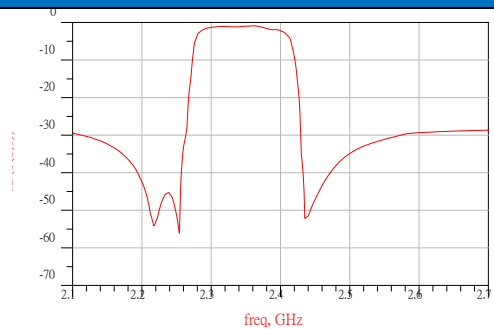
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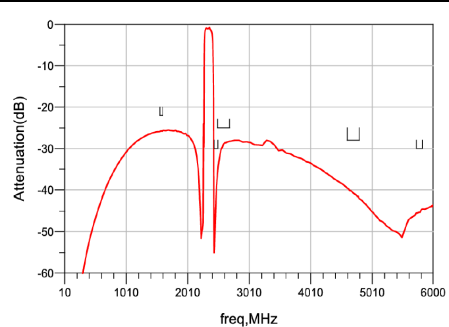
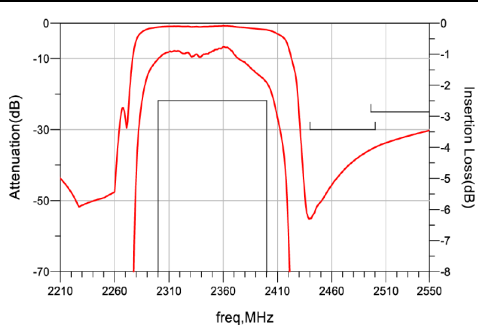
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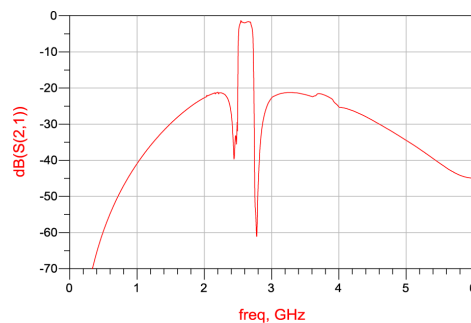
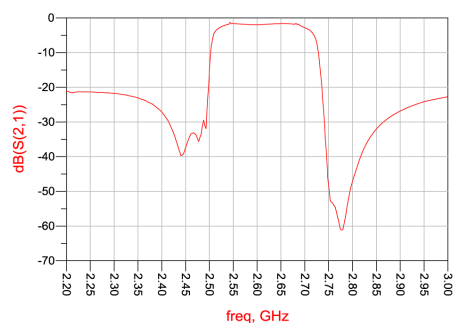


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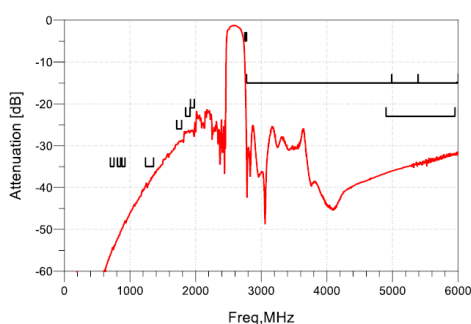
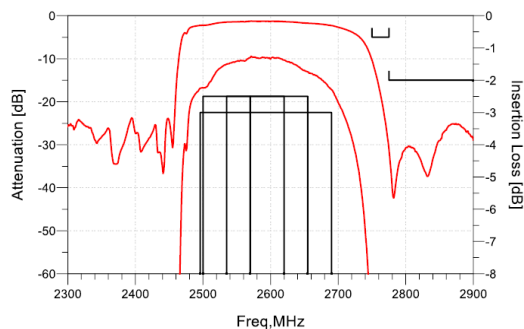


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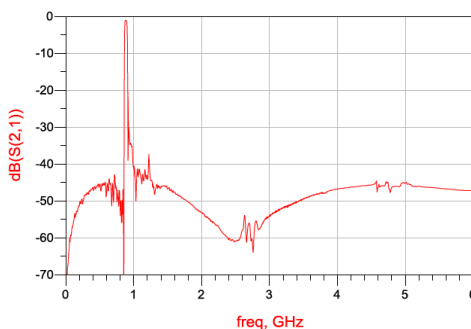
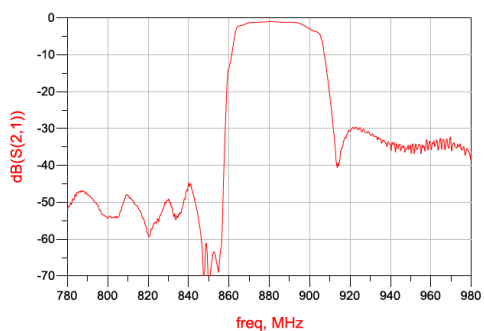
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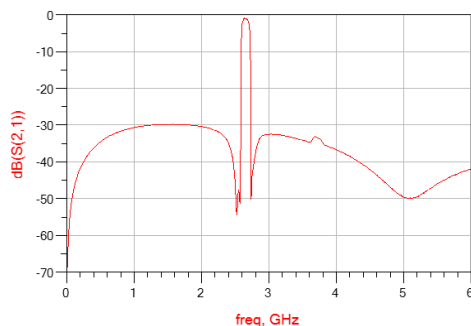
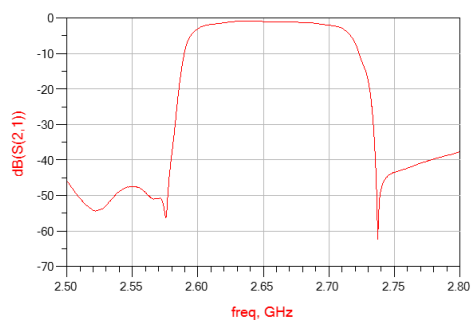
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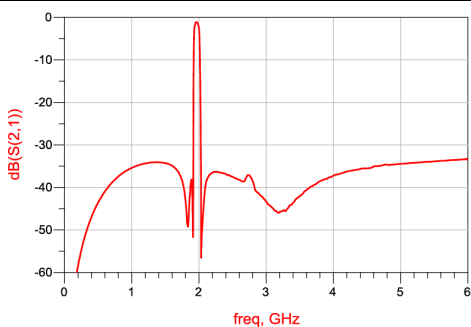
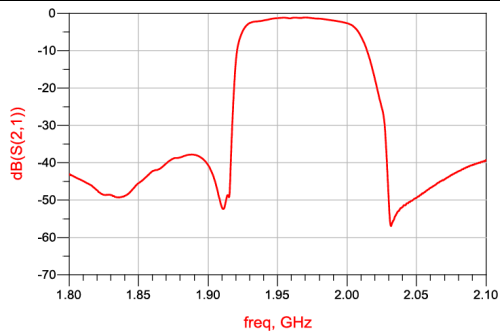
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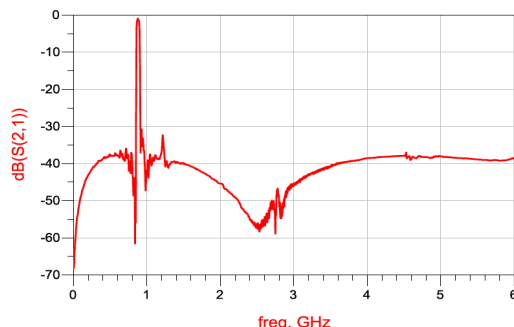
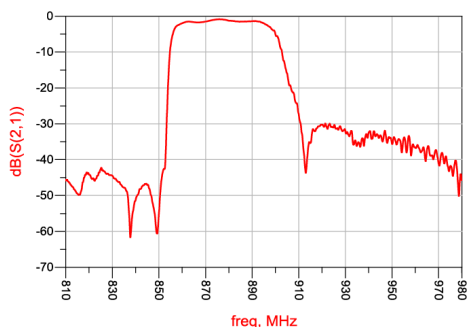


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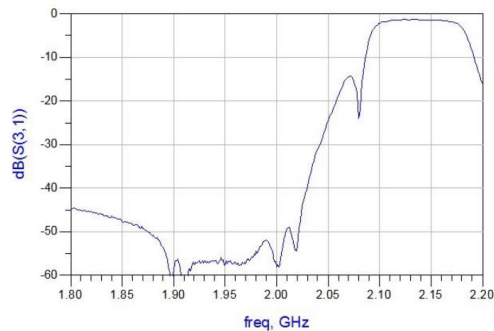
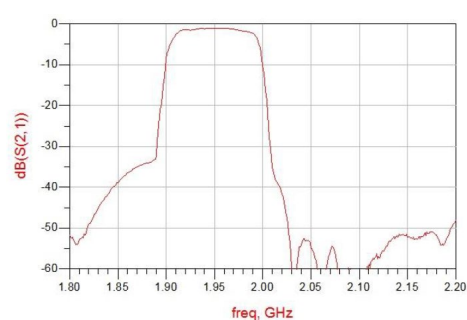


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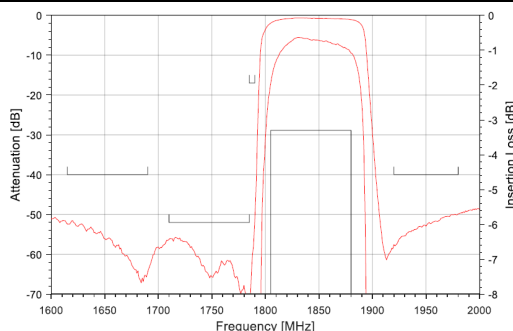
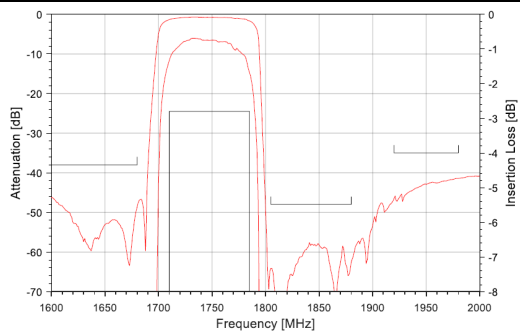
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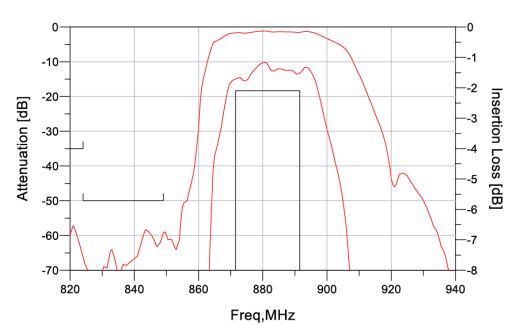
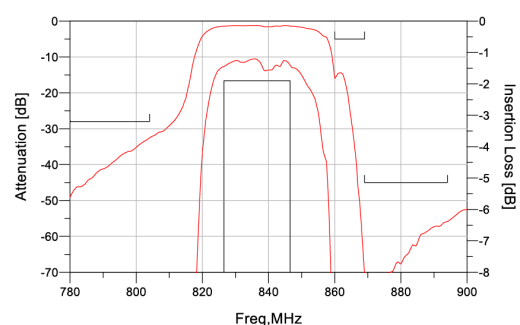
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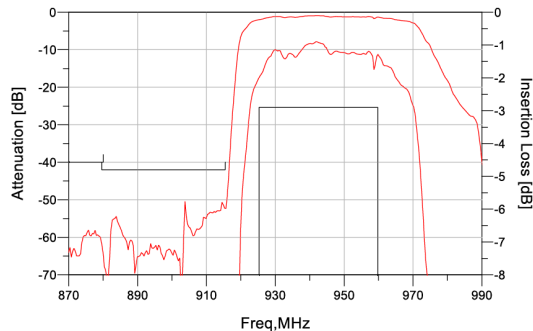
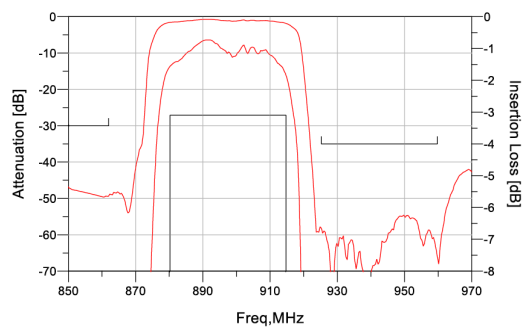
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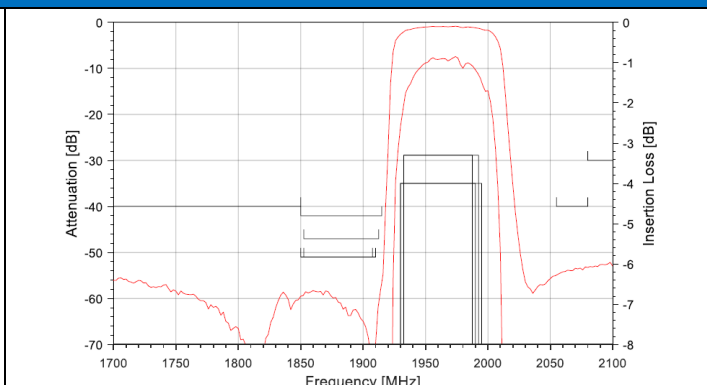
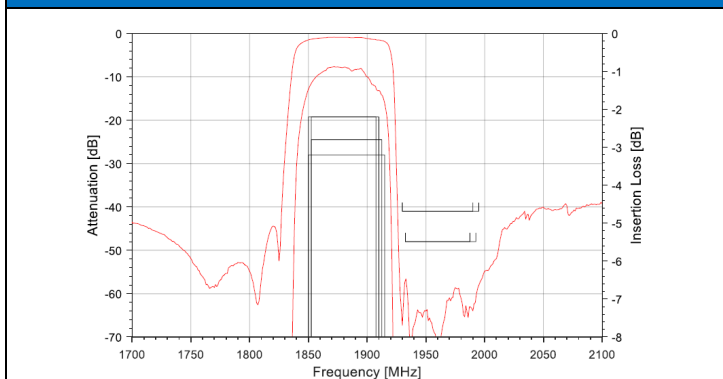


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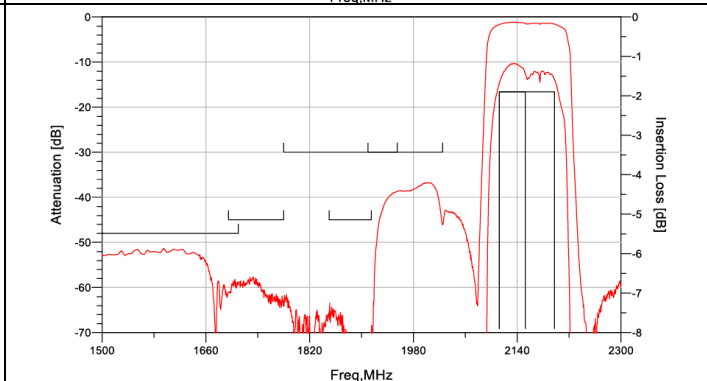
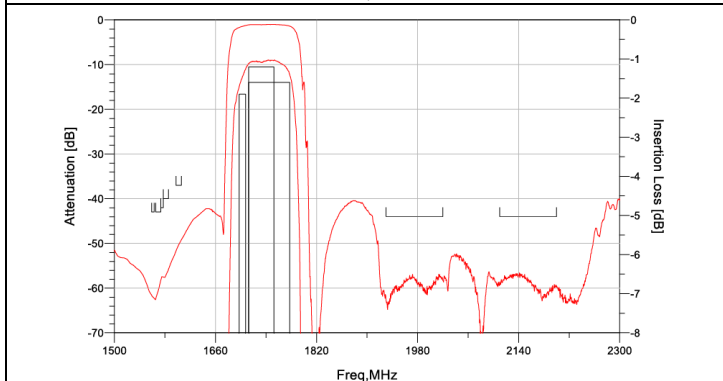
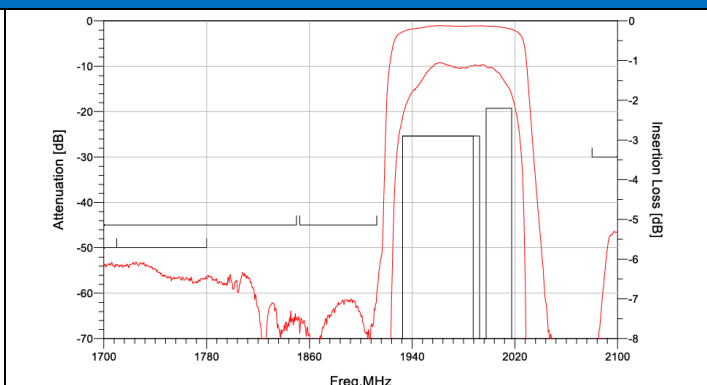
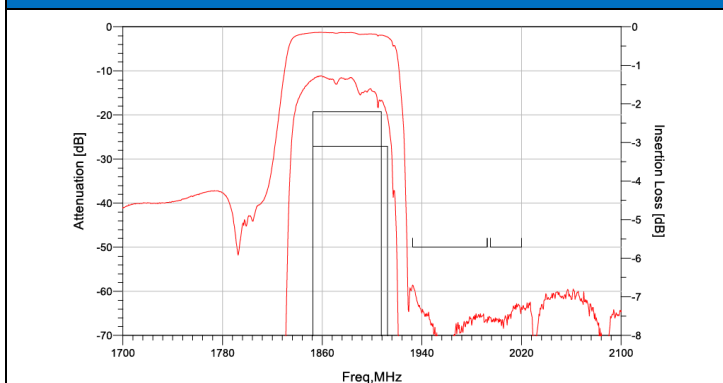


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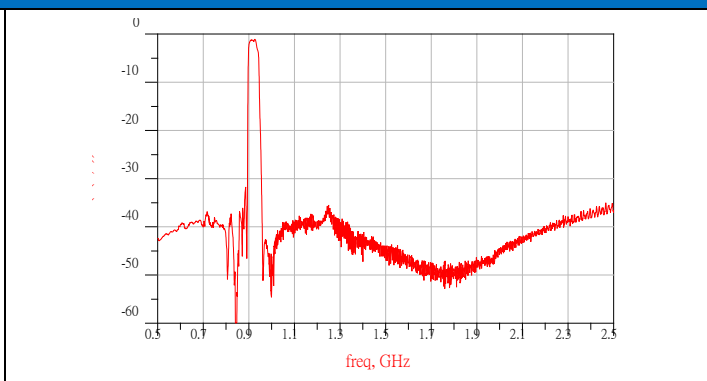
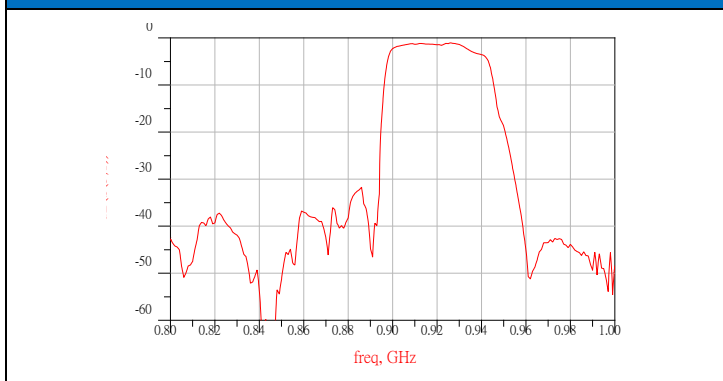
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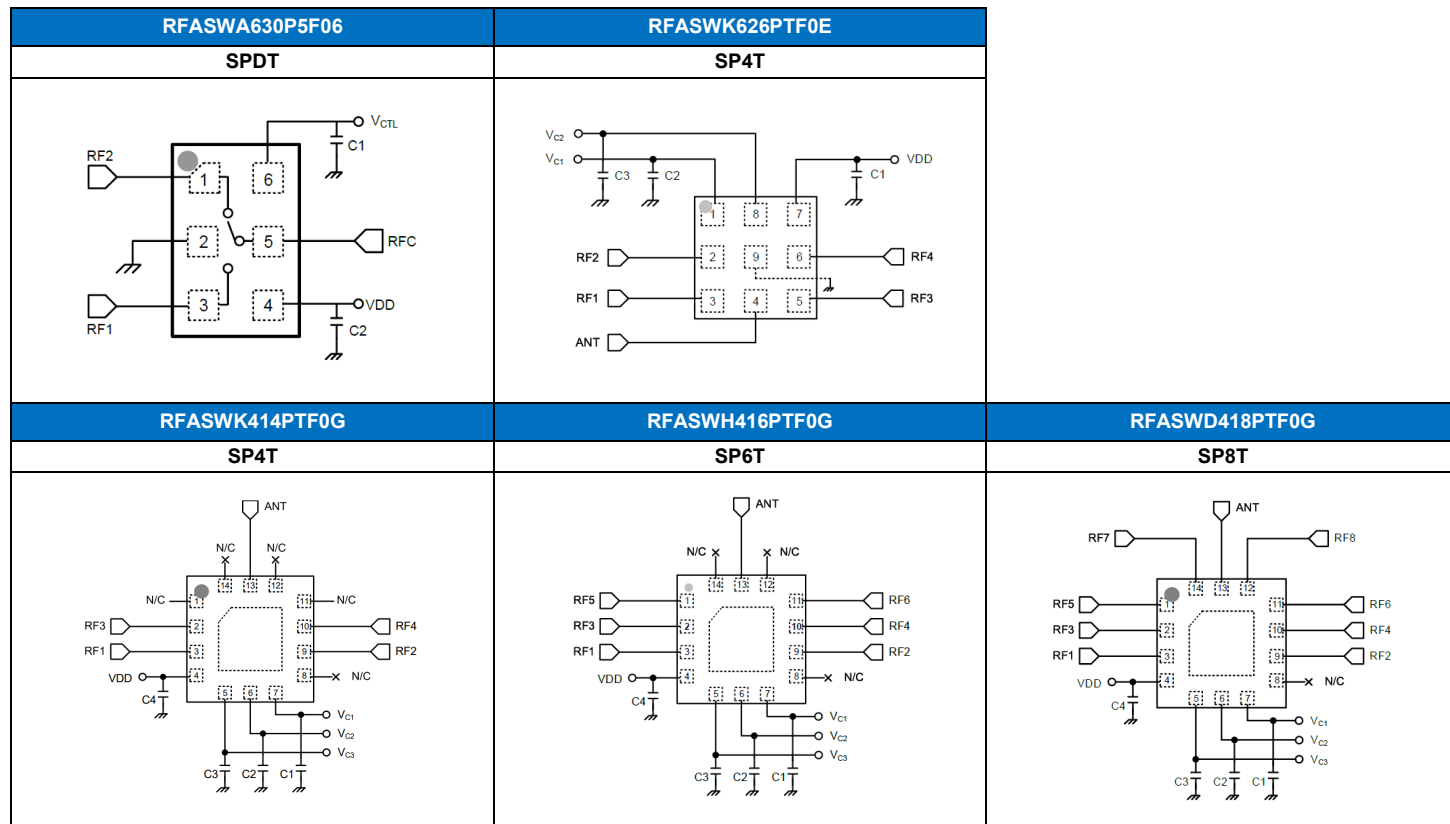
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- For more information, please contact with local sales representative
- All specifications are subject to change without notice

ANTENNA SWITCH: LTE

■ Application Circuit (LTE)

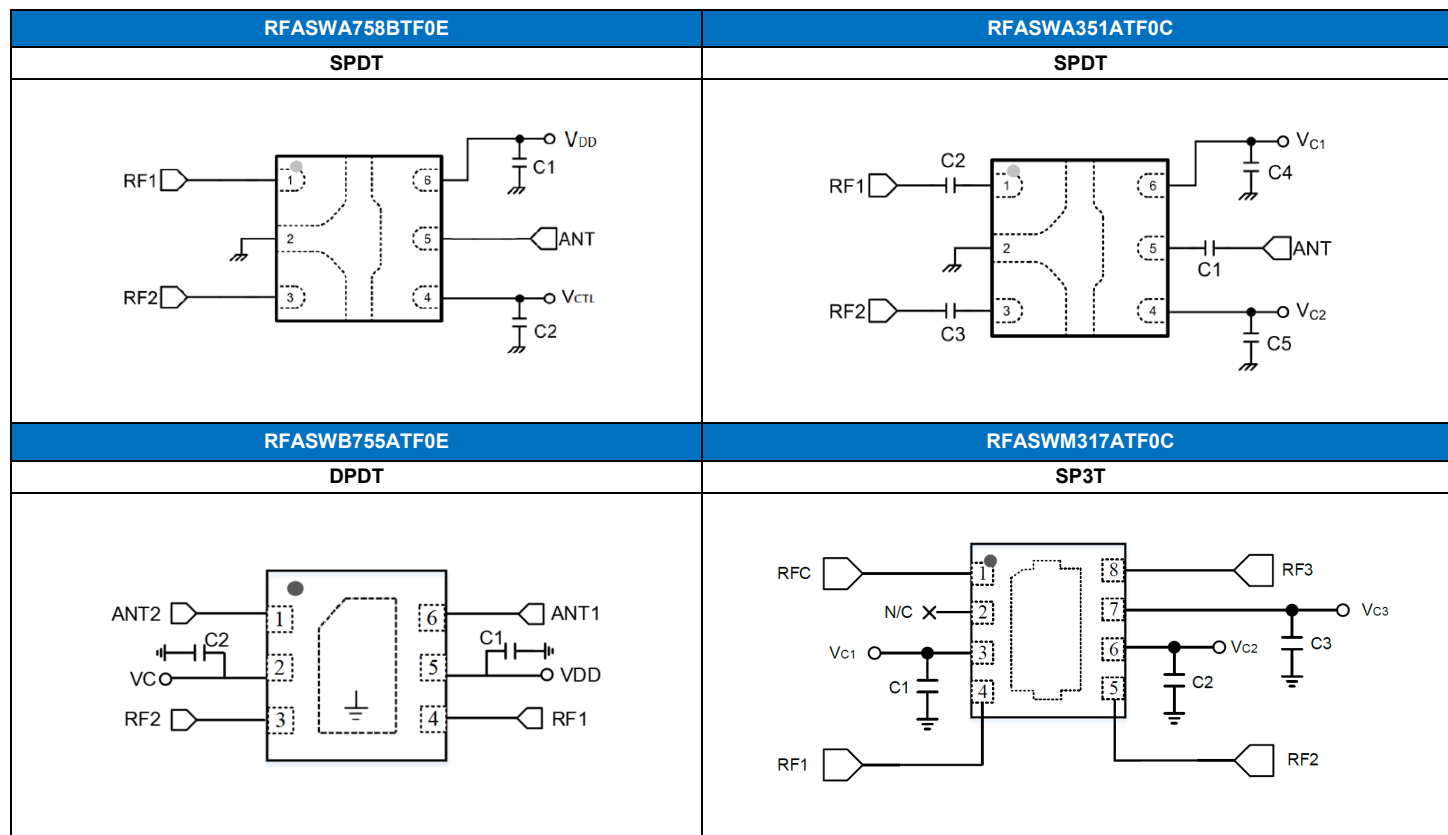


■ LTE Switch _ ELECTRICAL SPECIFICATION (Typ.)

Part Number	Interface	Function	Pmax (dBm)	Frequency (MHz)	Insertion loss (dB)	Isolation (dB)	Package (mm)
RFASWA630P5F06	GPIO	SPDT	34	100~6000	0.3@2.7GHz	25@2.7GHz	1.1 x 0.7 x 0.5
RFASWK626PTF0E	GPIO	SP4T	33	100~2700	0.6@2.7GHz	22@2.7GHz	1.1 x 1.1 x 0.46
RFASWK626PTF0G	GPIO	SP4T	33	100~2700	0.65@2.7GHz	21@2.7GHz	1.1 x 1.1 x 0.56
RFASWK414PTF0E	GPIO	SP4T	35	100~2700	0.6@2.7GHz	24@2.7GHz	2.0 x 2.0 x 0.55
RFASWK414PTF0G	GPIO	SP4T	33	100~2700	0.7@2.7GHz	25@2.7GHz	2.0 x 2.0 x 0.5
RFASWH416PTF0E	GPIO	SP6T	35	100~2700	0.6@2.7GHz	24@2.7GHz	2.0 x 2.0 x 0.55
RFASWH416PTF0G	GPIO	SP6T	33	100~2700	0.7@2.7GHz	25@2.7GHz	2.0 x 2.0 x 0.5
RFASWD418PTF0E	GPIO	SP8T	35	100~2700	0.6@2.7GHz	24@2.7GHz	2.0 x 2.0 x 0.55
RFASWD418PTF0G	GPIO	SP8T	33	100~2700	0.7@2.7GHz	25@2.7GHz	2.0 x 2.0 x 0.5

ANTENNA SWITCH: Wi-Fi

■ Application Circuit (Wi-Fi)



■ Wi-Fi Switch _ ELECTRICAL SPECIFICATION (Typ.)

Part Number	Interface	Function	Pmax (dBm)	Frequency (MHz)	Insertion loss (dB)	Isolation (dB)	Package (mm)
RFASWA758BTF0E	GPIO	SPDT	33	100~7200	0.4@2.5GHz 5.5@5.5GHz 0.65@7.125GHz	39@2.5GHz 28@5.5GHz 24@7.125GHz	1.0 x 1.0 x 0.45
RFASWA758BTF0C	GPIO	SPDT	32	100~7200	0.25@2.5GHz 0.35@5.5GHz 0.55@7.125GHz	37@2.5GHz 26@2.5GHz 21@7.125GHz	1.0 x 1.0 x 0.4
RFASWA358ATF0G	GPIO	SPDT	32	1000~6000	0.55@2.5GHz 0.95@5.5GHz	31@2.5GHz 21@5.5GHz	1.0 x 1.0 x 0.45
RFASWA351ATF0G	GPIO	SPDT	32	1000~6000	0.5@2.5GHz 1.05@5.5GHz	31@2.5GHz 19@5.5GHz	1.0 x 1.0 x 0.45
RFASWA751BTF0C	GPIO	SPDT	32	100~7200	0.25@2.5GHz 0.35@5.5GHz 0.55@7.125GHz	37@2.5GHz 26@2.5GHz 21@7.125GHz	1.0 x 1.0 x 0.4
RFASWB755ATF0E	GPIO	DPDT	32	100~7200	0.7@2.5GHz 0.95@5.5GHz 1.2@7.125GHz	42@2.5GHz 45@5.5GHz 28@7.125GHz	1.5 x 1.5 x 0.45
RFASWM317ATF0C	GPIO	SP3T	33	100~7200	0.35@2.5GHz 0.50@5.5GHz 0.70@7.125GHz	32@2.5GHz 24@5.5GHz 22@7.125GHz	1.5 x 1.5 x 0.45

ANTENNA SWITCH: 5G NR

■ Application Circuit (5G NR)

RFASWA630PTF0E		RFASWB022ATF0E	
SPDT		DPDT	
RFASWK114ATF0E		RFASWCM024ATF0G	
SP4T		DP4T	
RFASWAB477ATF0G		RFASWAB477ATF0G	
3P3T		3P3T	

■ 5G NR Switch _ ELECTRICAL SPECIFICATION (Typ.)

Part Number	Interface	Function	Pmax (dBm)	Frequency (MHz)	Insertion loss (dB)	Isolation (dB)	Package (mm)
RFASWA630PTF0E	GPIO	SPDT	39	100~6000	0.65@6GHz	15@6GHz	1.1 x 0.7 x 0.5
RFASWB022ATF0E	GPIO	DPDT	35	100~5000	0.95@5GHz	30@5GHz	1.5 x 1.1 x 0.45
RFASWK114ATF0E	MIPI	SP4T	39	100~5000	0.7@5GHz	18@5GHz	1.1 x 1.1 x 0.46
RFASWCM024ATF0G	MIPI	DP4T	37	100~5000	1.68@5GHz	22@5GHz	2.0 x 2.0 x 0.55
RFASWAB477ATF0G	MIPI	3P3T	37.2	100~6000	1.25@6GHz	24@6GHz	2.0 x 2.0 x 0.55

DIPOLE ANTENNA (N/SMA)

■ ELECTRICAL SPECIFICATION

Series	Size(mm)		Operating Frequency Range	Gain	VSWR	Return Loss
	L	Ø				
8709	87	9.95	2.4~2.5 GHz	2 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 2 dBi 5.15~7.125 GHz: 3 dBi	<2	<-10 dB
			UHF	2 dBi	<2	<-10 dB
1513	157.5	13	2.4~2.5 GHz	3 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 3 dBi 5.15~7.125 GHz: 3 dBi	<2	<-10 dB
			5150~7125 MHz	5150~5850 GHz: 3.5 dBi 5950~7125 GHz: 3.5 dBi	<2	<-10 dB
1713	172.5	13	2.4~2.5 GHz	3 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 4 dBi 5.15~7.125 GHz: 5 dBi	<2	<-10 dB
			5150~7125 MHz	5150~5850 GHz: 3.5 dBi 5950~7125 GHz: 3.5 dBi	<2	<-10 dB
3913	392	12.5	2.4~2.5 GHz	9 dBi	<2	<-10 dB
1310	135.7	10	2.4~2.5 GHz	5 dBi	<2	<-10 dB
			5.15~7.125 GHz	5 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	3 dBi~4 dBi	<2	<-10 dB
			Lora	3 dBi	<2.5	<-7 dB
			5G NR	3 dBi	<3	<-6 dB
			UHF	3 dBi	<2.5	<-7 dB
1413	148.5	13	2.4~2.5 GHz	3 dBi	<2	<-10 dB
			5.15~7.125 GHz	3 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	3 dBi	<2	<-10 dB
			5G NR	3 dBi	<3	<-6 dB
1615	169.9	13	5G NR +Sub-6G+5G	0.93 dBi (@617~960 MHz) 2.71 dBi (@1710~2690 MHz) 3.66 dBi (@3300~4200 MHz) 4.37 dBi (@5150~7150 MHz)	<3.0(@617~960/1710~2690 MHz) <3.0(@3300~4200/5150~7150 MHz)	<6.0 dB(@617~960/1710~2690 MHz) <6.0 dB(@3300~4200/5150~7150 MHz)
1913	196.6	13	2.4~2.5 GHz	5dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 4 dBi 5.15~7.125 GHz: 5 dBi	<2	<-10 dB
			5150~7125 MHz	5150~5850 GHz: 3.0 dBi 5950~7125 GHz: 3.5 dBi	<2	<-10 dB
			UHF	2 dBi	<2	<-10 dB
2213	217.1	13	2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 5 dBi 5.15~7.125 GHz: 4 dBi	<2	<-10 dB
			2.4~2.5 GHz	6 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	7 dBi	<2	<-10 dB
			5.15~7.125 GHz	7 dBi	<2	<-10 dB
			5G NR	5 dBi	<3	<-6 dB
2220	220	20	2.4 GHz	5 dBi	<2	<-10 dB
			5.15~7.125 GHz	5 dBi	<2	<-10 dB
			2.4~2.5 GHz	7 dBi	<2	<-10 dB
2520	250	20	2.4 GHz	5~7 dBi	<2	<-10 dB
			5.15~7.125 GHz	7 dBi	<2	<-10 dB
			2.4~2.5 GHz (High Gain)	7 dBi	<2	<-10 dB
3019	309	191	698 ~ 960 MHz 1710 ~ 2690 MHz 3300 ~ 3800 MHz	5 dBi (@698~960 MHz) 8 dBi (@1710~2690 MHz) 11 dBi (@3300~3800 MHz)	<3.5 (@698~960 MHz) <3.0 (@1710~2690 MHz) <3.0 (@3300~3800 MHz)	<-5.1 dB(@698~960 MHz) <-6.0 dB(@1710~2690 MHz) <-6.0 dB(@3300~3800 MHz)
6609	66.7	9.95	UHF	--	<3	<-6 dB
1714	175.51	13	5G NR +Sub-6G+5G	1.37 dBi(@617~960 MHz) 2.11 dBi(@1447~1510 MHz) 2.20 dBi(@1560~1609 MHz) 3.96 dBi(@1710~2690 MHz) 3.60 dBi(@3300~4200 MHz) 4.99 dBi(@5150~5800 MHz) 4.29 dBi(@5925~7150 MHz)	<3.0(@617~960 MHz) <2.5(@1447~1510 MHz) <2.0(@1560~1609/1710~2690/ 3300~4200/5150~5800/5925~7150 MHz)	<6.0 dB(@617~960 MHz) <7.3(@1447~1510 MHz) <-6.0 dB(@1560~1609/1710~2690/ 3300~4200/5150~5800/5925~7150 MHz)
7575	75	75	3300 ~ 5000 MHz	8 dBi (@3300 ~ 5000 MHz)(ANT1) 8 dBi (@3300 ~ 5000 MHz)(ANT2)	<2	<-10 dB

DIPOLE ANTENNA (N/SMA)

8709	1513	1713	3913	1310
1413	2213	2220	2520	1913
1615	6609	3019	1714	7575

DIPOLE ANTENNA (Cable)

■ ELECTRICAL SPECIFICATION

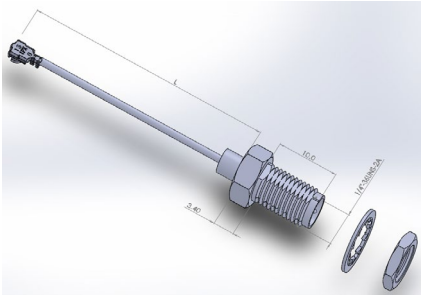
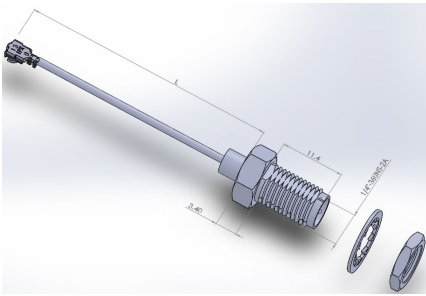
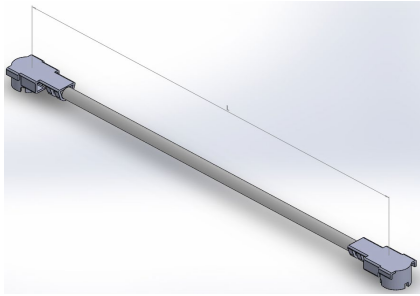
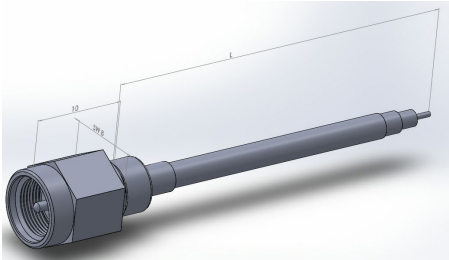
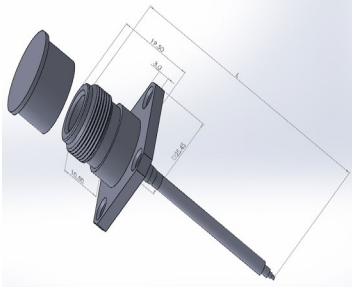
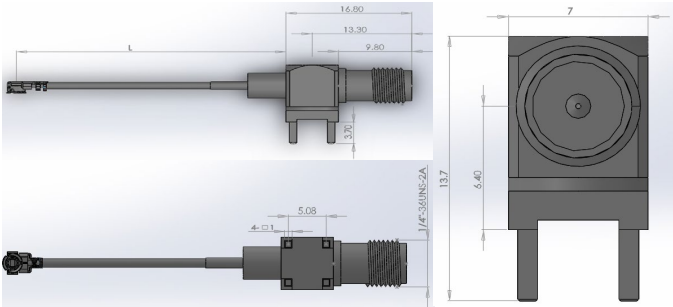
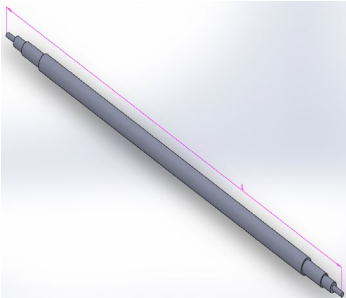
Series	Size(mm)		Operating Frequency Range	Gain	VSWR	Return Loss
	L	Ø				
8709	87	9.35	2.4~2.5 GHz	2 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 2 dBi 5.15~7.125 GHz: 3 dBi	<2	<-10 dB
1513	152	9.35	2.4~2.5 GHz	3 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 3 dBi 5.15~7.125 GHz: 3 dBi	<2	<-10 dB
			5150~7125 MHz	5150~5850 GHz: 3.0 dBi 5950~7125 GHz: 3.5 dBi	<2	<-10 dB
1514	158	14	2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 5 dBi 5.15~7.125 GHz: 7 dBi	<2	<-10 dB
1713	172	9.35	2.4~2.5 GHz	3 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 4 dBi 5.15~7.125 GHz: 5 dBi	<2	<-10 dB
			5150~7125 MHz	5150~5850 GHz: 3.0 dBi 5950~7125 GHz: 3.5 dBi	<2	<-10 dB
1310	135.7	10	2.4~2.5 GHz	5 dBi	<2	<-10 dB
			5.15~7.125 GHz	5 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	3 dBi~4 dBi	<2	<-10 dB
			5G NR	3 dBi	<3	<-6 dB
1913	192	9.35	2.4~2.5 GHz	5 dBi	<2	<-10 dB
			2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz: 4 dBi 5.15~7.125 GHz: 5 dBi	<2	<-10 dB
			5150~7125 MHz	5150~5850 GHz: 3.0 dBi 5950~7125 GHz: 3.5 dBi	<2	<-10 dB
1330	130	30	5G NR	-0.09 dBi (@824~960 MHz) 1.81 dBi (@1700 ~ 2700 MHz)	<3	<-6 dB
6537	64	37	5G NR	0.65 dBi (@699~746 MHz) 4.61 dBi (@1710~2155 MHz)	<3.5(@ 699~746 MHz) <3(@1710~2155 MHz)	<-5.1 dB(@699~746 MHz) <-6 dB(@1710~2155 MHz)
4617	46	17.5	2.4~2.5 GHz	2 dBi	<2	<-10 dB
1615	169.9	13	5G NR +Sub-6G+5G	0.93 dBi (@617~960 MHz) 2.71 dBi (@1710~2690 MHz) 3.66 dBi (@3300~4200 MHz) 4.37 dBi (@5150~7150 MHz)	<3.0(@617~960/1710~2690 MHz) <3.0(@3300~4200/5150~7150 MHz)	<6.0 dB(@617~960/1710~2690 MHz) <-6.0 dB(@3300~4200/5150~7150 MHz)

8709	1514	1513	1713	1310	1913	1615
1330		6537		4617		

Cable Assembly

■ ELECTRICAL SPECIFICATION

Series	Connector 1	Connector 2	Wire Diameter	Color	L	Operating Frequency Range	VSWR
1006	Straight Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~7.125 GHz	2.0
1106	Straight Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~7.125 GHz	2.0
1613	R/A Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~7.125 GHz	2.0
0403	IPEX	IPEX(or Strip & Tin)	Ø0.81/Ø1.13/Ø1.37/RG178	Option	Option	DC ~7.125 GHz	2.0
0202	IPEX III	IPEX(or Strip & Tin)	Ø0.81	Option	Option	DC ~7.125 GHz	2.0
xxxx	Strip & Tin	Strip & Tin	Ø0.81/Ø1.13/Ø1.37/RG178	Option	Option	DC ~7.125 GHz	2.0
1015	N Jack	MMCX(or Strip & Tin)	RG316	Option	Option	DC ~7.125 GHz	2.0
1008	Straight Reverse SMA Plug	IPEX(or Strip & Tin)	RG405	Option	Option	DC ~7.125 GHz	2.0

1006 	1106 	0403/0202 
1008 	1008 	1015 
1613 		XXX 

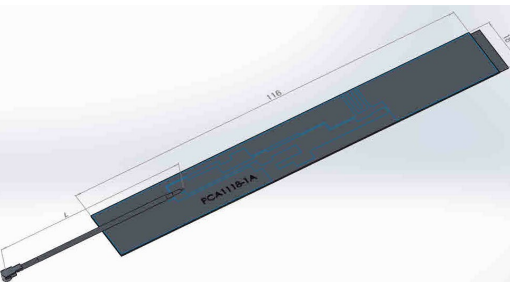
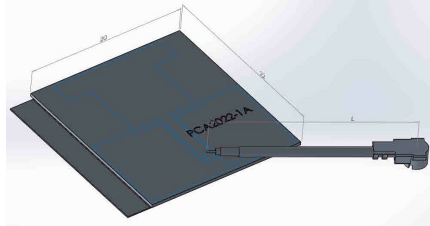
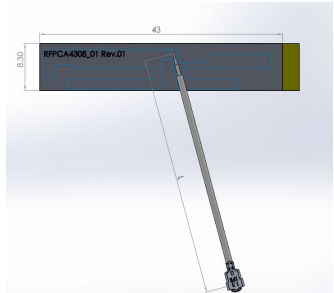
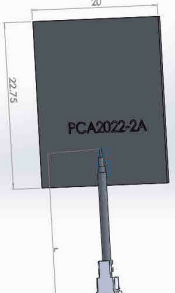
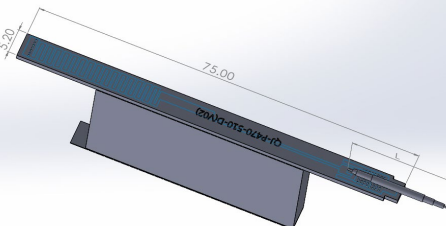
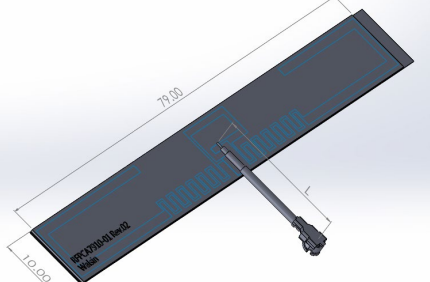
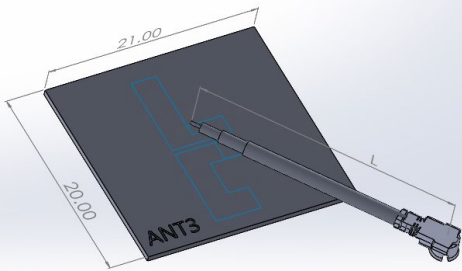
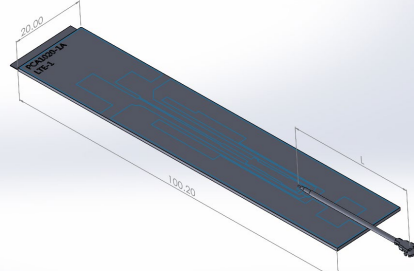
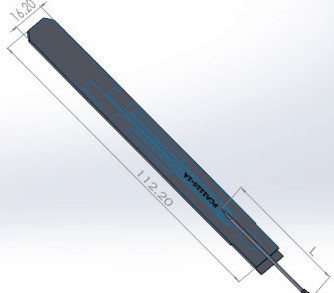
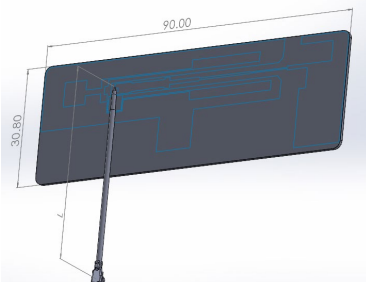
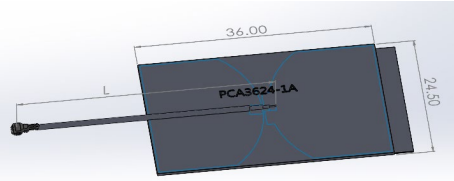
PCB Antenna

■ ELECTRICAL SPECIFICATION

Series	PCB Size(mm)		Cable Length (mm) L	Operating Frequency Range	Gain	VSWR	Return Loss
	L	w					
1118	118	18	Option	5G NR +Sub-6G+5G	3.32 dBi(@ 698~960 MHz) 6.04 dBi(@ 1710~2690 MHz) 5.36 dBi(@ 3300~3800 MHz) 4.39 dBi(@5150~5850 MHz)	<2.0 (@698~960 MHz) <3.0 (@ 1710~ 2690/3300 ~3800/5150~5850 MHz)	<-10.0 dB (@698~960/1710~2690 MHz) <-6.0 dB (@3300~3800/5150~5850 MHz)
2022	20	22	Option	5G NR +Sub-6G+5G	5.54 dBi	<2	<-10dB
2313	23	13	Option	5.15~7.125 GHz	3dBi	<2	<-10dB
4305	43	5	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
2010	20.1	10	Option	5.15~7.125 GHz	3dBi	<2	<-10dB
5010	50	10	Option	2.4~2.5 GHz	3dBi	<2	<-10dB
4308	43	8.3	Option	2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz : 2dBi 5.15~7.125 GHz : 3dBi	<2	<-10dB
4606	46.5	6	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
3513	35	13	Option	2.4~2.5 GHz	4dBi	<2	<-10dB
3515	35	15	Option	2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz : 2dBi 5.15~7.125 GHz : 3dBi	<2	<-10dB
2022	20	22.75	Option	5150 ~ 7125 MHz	3.5dBi	<2	<-10dB
7505	75	5.2	Option	UHF	--	<2.5	<-7.3dB
7910	79	10	Option	UHF	--	<2	<-10dB
2120	21	20	Option	5925 ~ 7125 MHz	4.89dBi	<3	<-6dB
1020	100.2	20	Option	617~960 MHz 1710~2690 MHz 3300~5000 MHz 5150~5925 MHz	--	<3.5	<-5.1dB
1116	112.2	16.2	Option	617~960 MHz 1710~2690 MHz 3300~4200 MHz 5150~7150 MHz	617~960 MHz: 0.93dBi 1710~2690 MHz: 2.71dBi 3300~4200 MHz: 3.66dBi 5150~7150 MHz: 4.37dBi	<3	<-6dB
3090	30	90	Option	5G NR	698~960 MHz: 0.59 dBi 1710~2690 MHz: 3.09dBi	<3	<-6dB
3624	36	24.5	Option	UWB	3.1~5 GHz:3.44 dBi 6~8 GHz:5.12 dBi 9~10.6 GHz:3.43 dBi	<2	<-10dB



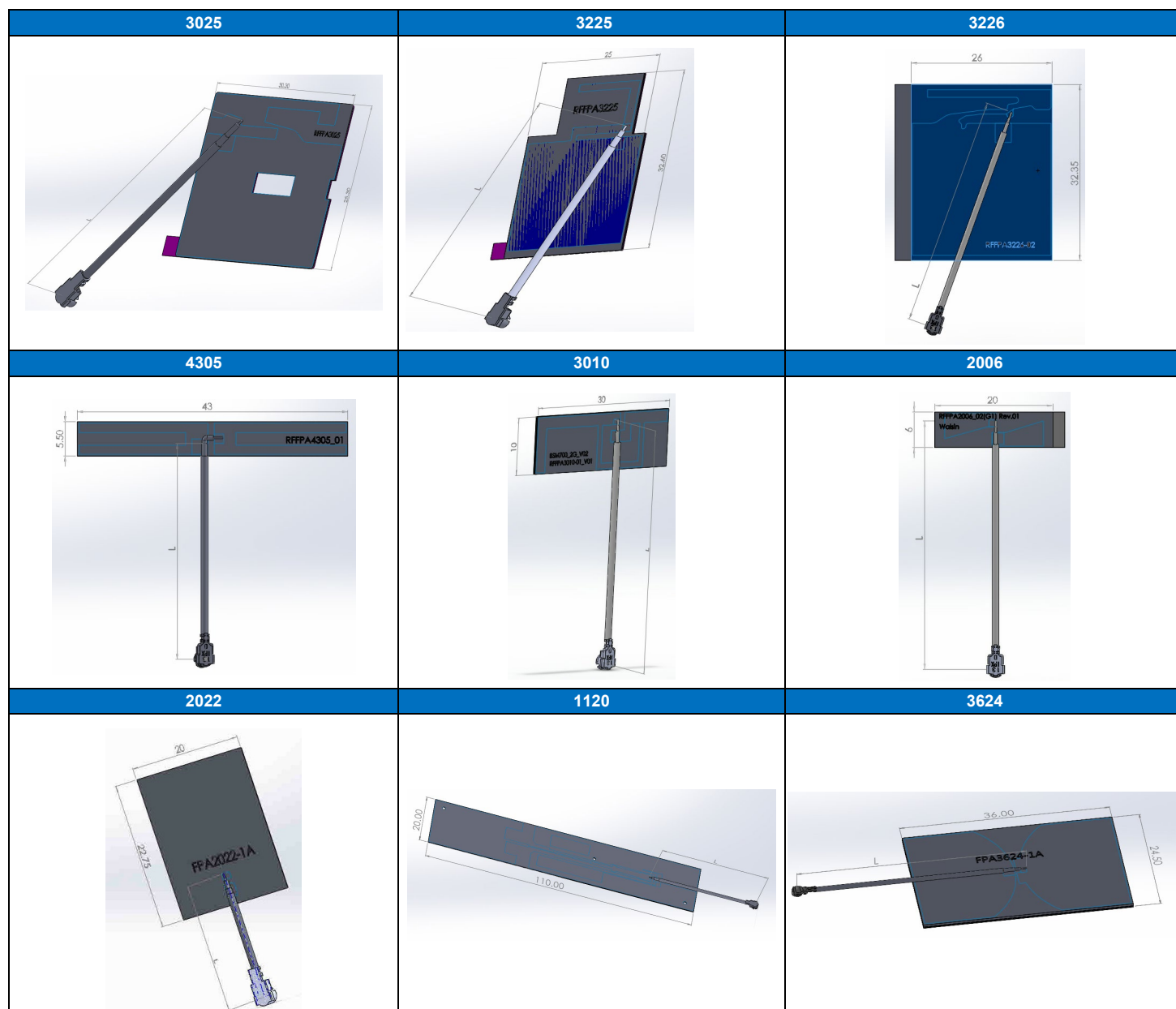
PCB Antenna

1118 	2022 	4308 
2022 	7505 	7910 
2120 	1020 	1116 
3090 	3624 	

FPA Antenna

■ ELECTRICAL SPECIFICATION

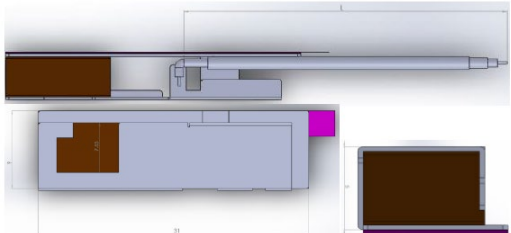
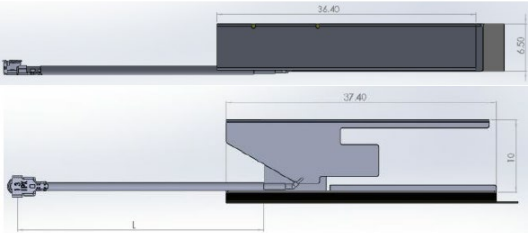
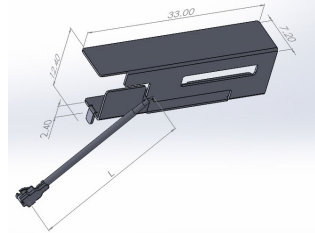
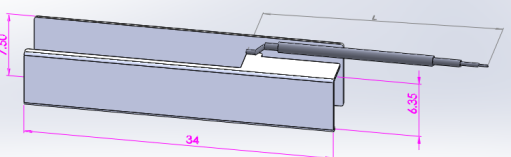
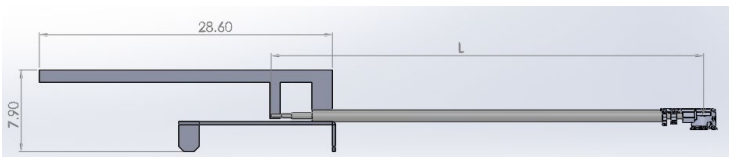
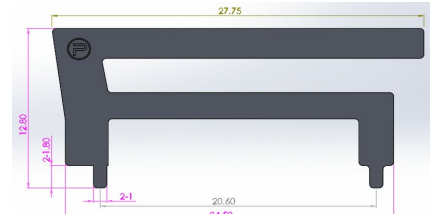
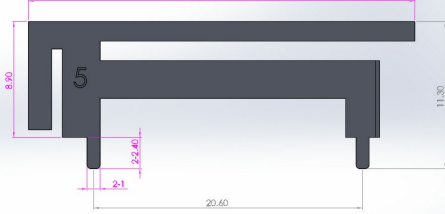
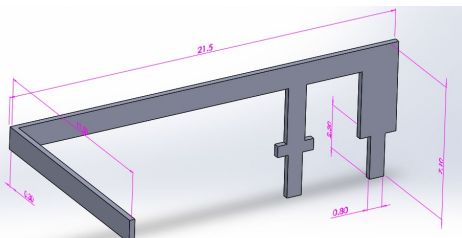
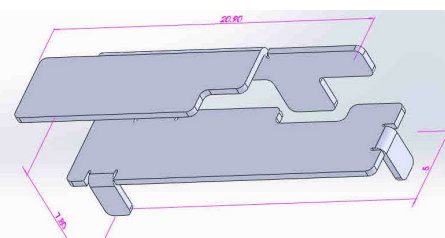
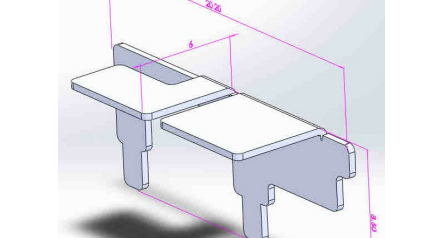
Series	Size(mm)		Cable Length(mm) L	Operating Frequency Range	Gain	VSWR	Return Loss
	L	w					
3025	30.3	25.3	Option	2.4~2.5 GHz	3dBi	<2	<-10dB
3225	25	32.6	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
3226	32.35	26	Option	2.4~2.5 / 5.15~7.125 GHz	3dBi	<2	<-10dB
4305	43	5.5	Option	2.4~2.5 GHz	3dBi	<2	<-10dB
3010	30	10	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
2006	20	6	Option	5.15~7.125 GHz	2dBi	<2	<-10dB
2022	20	22.75	Option	5150 ~ 7125 MHz	3.5dBi	<2	<-10dB
1120	110	20	Option	5G NR	698 ~798 MHz:3.55 dBi 824 ~960 MHz:3.59 dBi 1710 ~2170 MHz:3.95 dBi 2300 ~2400 MHz:4.56 dBi 2500 ~2690 MHz:4.66 dBi	<2	<-10dB
3624	36	24.5	Option	UWB	3.1 ~5 GHz:3.43 dBi 6 ~8 GHz:5.49 dBi 9 ~10.6 GHz:3.75 dBi	<2	<-10dB



Metal Antenna

■ ELECTRICAL SPECIFICATION

Series	Size(mm)		Cable Length(mm) L	Operating Frequency Range	Gain	VSWR	Return Loss
	L	w					
3109	31	9	Option	2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz : 2 dBi 5.15~7.125 GHz : 2 dBi	<2	<-10dB
2107	21.5	7.1	None	2.4~2.5 GHz	3 dBi	<2	<-10dB
2807	28.6	7.9	Option	2.4~2.5 GHz	3 dBi	<2	<-10dB
3407	34	7.5	Option	2.4~2.5 GHz	3 dBi	<2	<-10dB
3706	37.4	6.5	Option	2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz : 5 dBi 5.15~7.125 GHz : 5 dBi	<2	<-10dB
2712	27.75	12.8	None	2.4~2.5 GHz	3.38 dBi	<2	<-10dB
2811	27.05	11.3	None	2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz : 2.66dBi 5.15~7.125 GHz : 3.68dBi	<2	<-10dB
2911	29.6	11.3	None	2.4~2.5/5.15~7.125 GHz	2.4~2.5 GHz : 2.14dBi 5.15~7.125 GHz : 2.68dBi	<2	<-10dB
2007	20.9	7.8	Option	5150 ~ 7125 MHz	5 dBi	<2	<-10dB
2008	20.2	8.6	Option	5150 ~ 7125 MHz	5 dBi	<2	<-10dB
3307	33	7.2	Option	UWB	3.1 ~5 GHz:4.79 dBi 6 ~8 GHz:5.39 dBi 9 ~10.6 GHz:4.96 dBi	<2	<-10dB

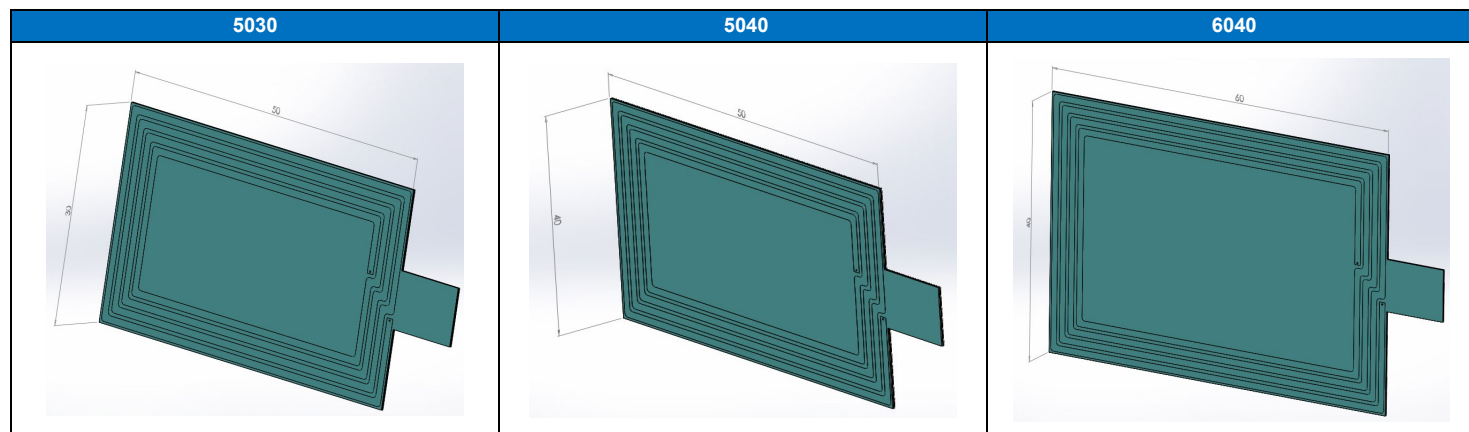
3109 	3706 	3307 
3407 	2807 	
2712 	2911 	2811 
2107 	2007 	2008 

NFC Antenna (NFC/WPC/WNC)

■ ELECTRICAL SPECIFICATION

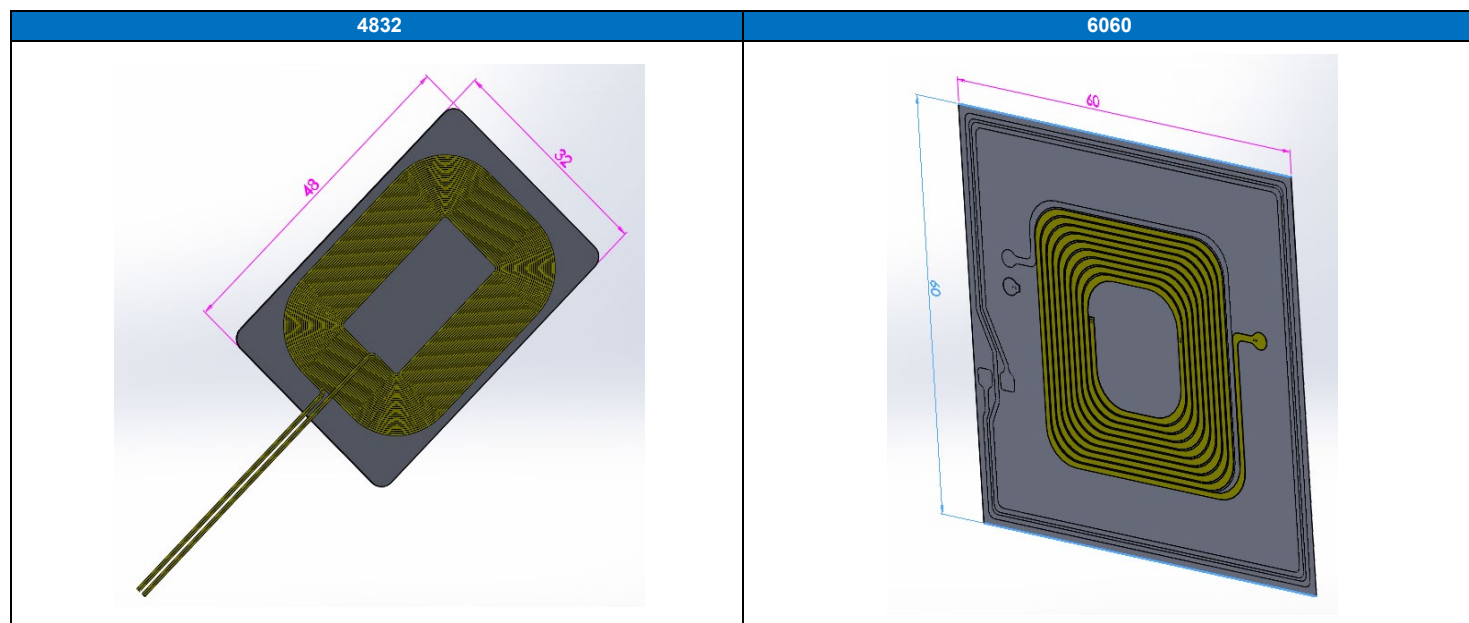
NFC

Series	Size(mm)		Ls	Rs	Q
	L	w			
5030	50	30	1.62±0.1μH	0.66±0.15Ω	15.42±2.5(1MHz)
5040	50	40	1.89±0.1μH	0.76±0.15Ω	15.62±2.5(1MHz)
6040	60	40	2.37±0.1μH	0.85±0.15Ω	17.5±2.5(1MHz)



WPC & WNC

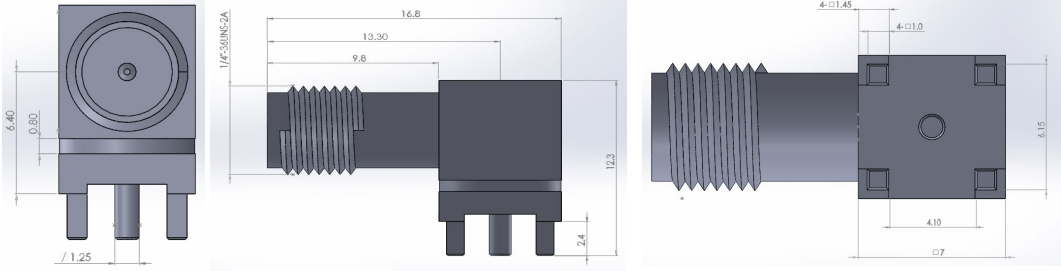
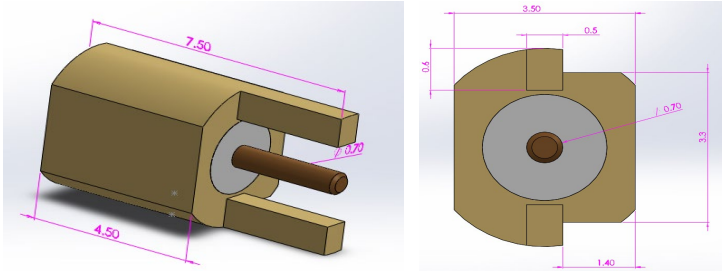
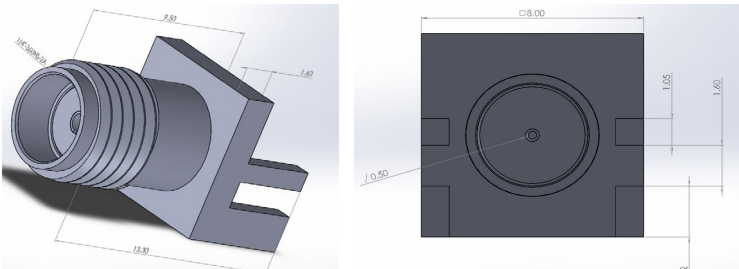
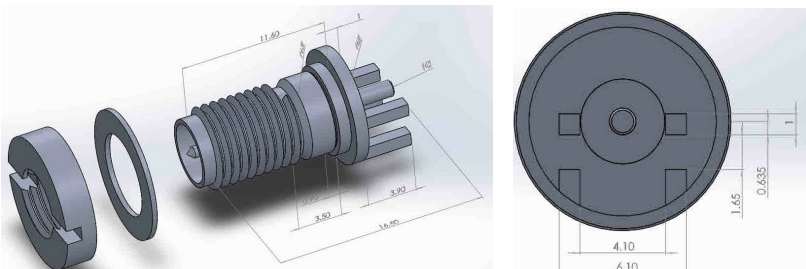
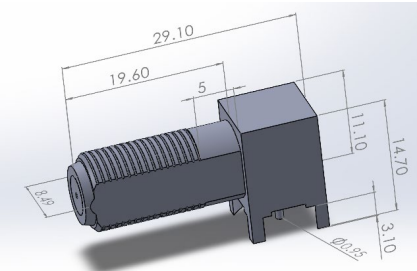
TYPE	Series	Size(mm)		Ls		Rs		Q	
		L	w						
WPC	4832	48	32	1.35±0.1μH		0.3±0.15Ω		28.3±2.5(1MHz)	
WNC	6060	60	60	NFC	2.11±0.1μH	NFC	0.572±0.15Ω	NFC	37.2±2.5(1MHz)
				WPC	18.69±0.1μH	WPC	0.837±0.15Ω	WPC	14.03±2.5(1MHz)



Connector

■ ELECTRICAL SPECIFICATION

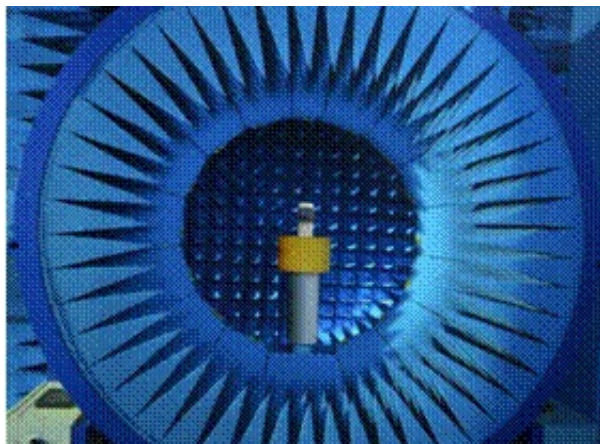
Series	Size(mm)		Operating Frequency Range	VSWR
	L	w		
1612	16.8	12.3	DC ~ 7.125 GHz	2.0
0703	7.5	3.3	DC ~ 7.125 GHz	2.0
1308	13.3	8	DC ~ 7.125 GHz	2.0
1609	16.5	9	DC ~ 7.125 GHz	2.0
2914	29.1	14.7	DC ~ 7.125 GHz	1.5

1612	
0703	
1308	
1609	
2914	

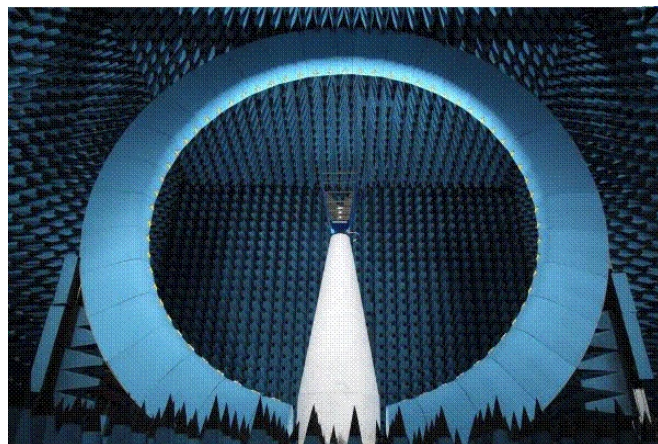
Measurement Equipment

- Antenna Passive Measurement : Efficiency / 3D Pattern @400MHz~10GHz
- Active Measurement : TRP & TIS Measurement for GSM/WCDMA/TD-CDMA/TDD-LTE/FDD-LTE/5G NR/WIFI

StarLab



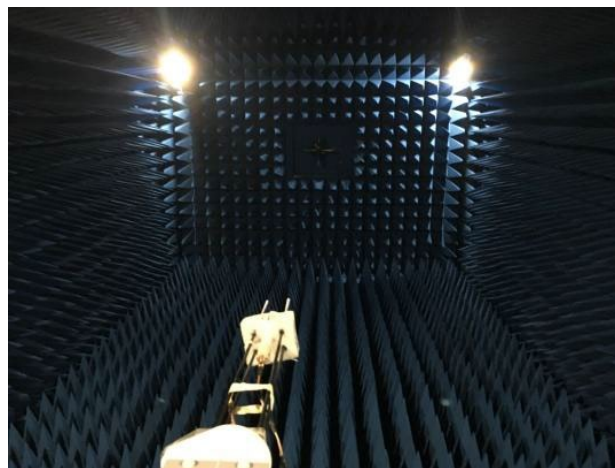
SG24-L(5m*5m*5m)



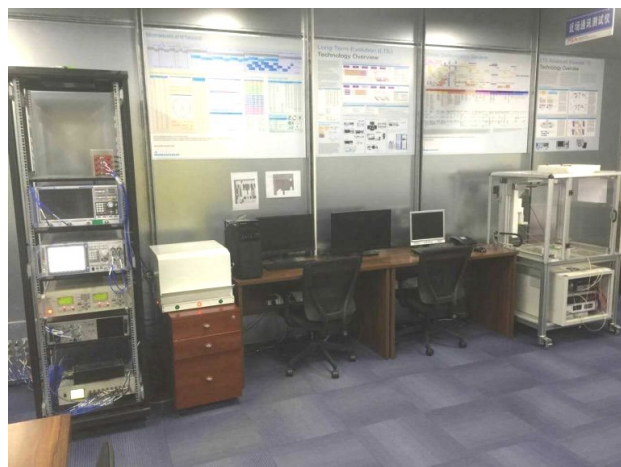
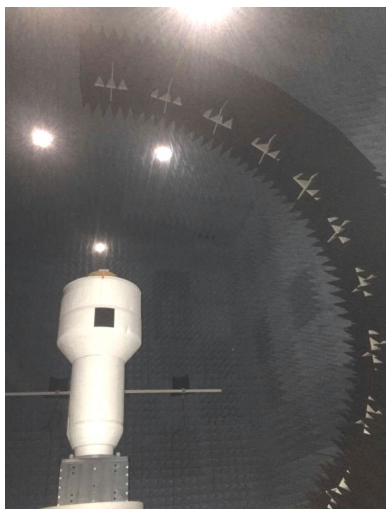
■ 2D Antenna Lab (Wireless Throughput Test)



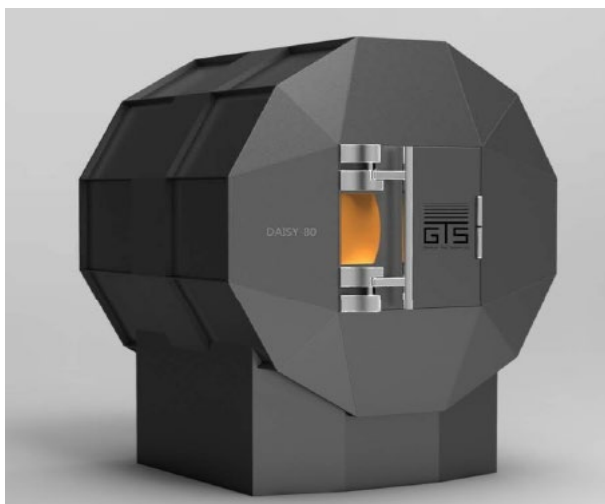
■ 3D Antenna Lab



Suzhou Smart TV Antenna Chamber



Shenzhen RayZone 1800



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