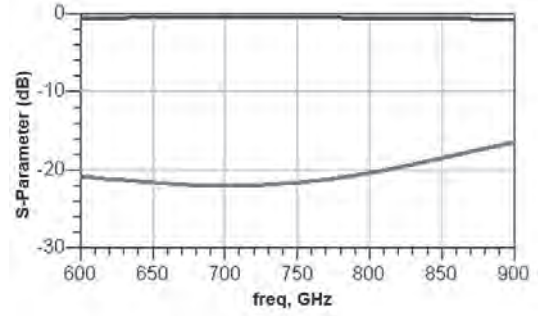
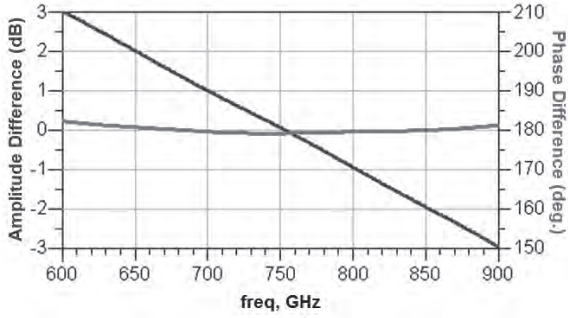
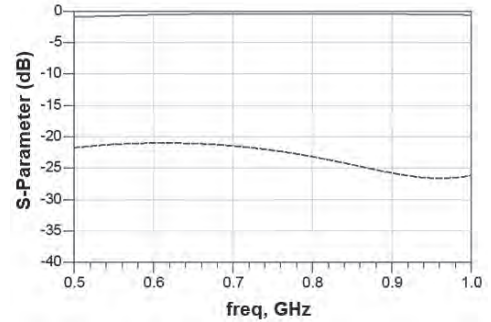
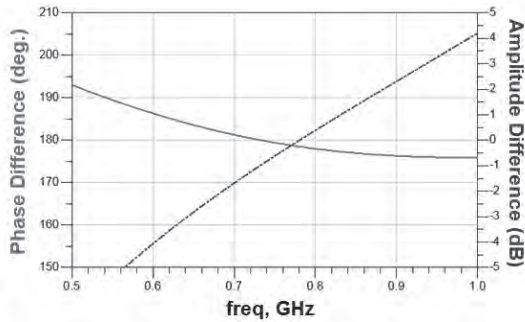


TYPICAL ELECTRICAL CHARACTERISTICS

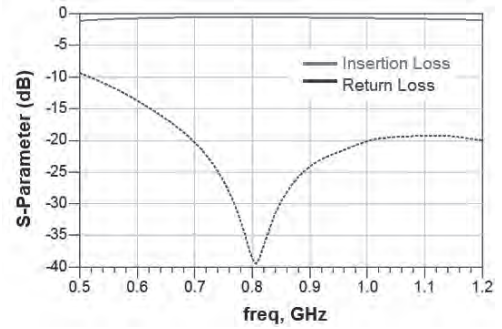
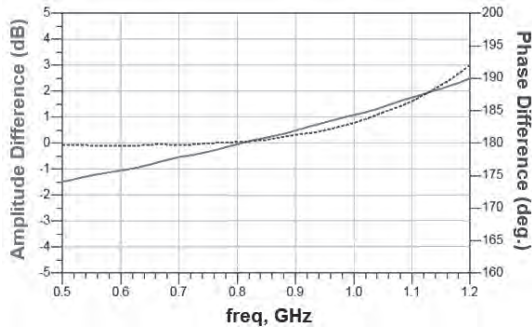
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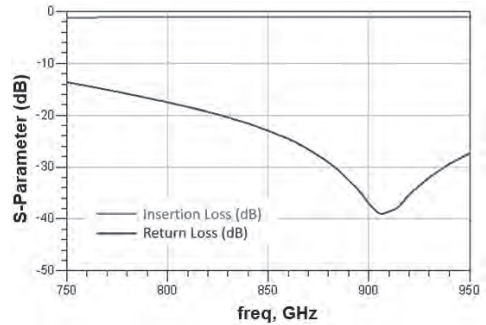
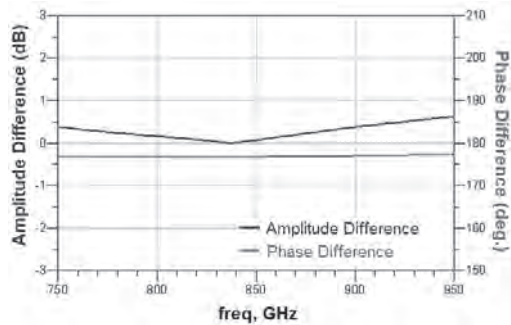
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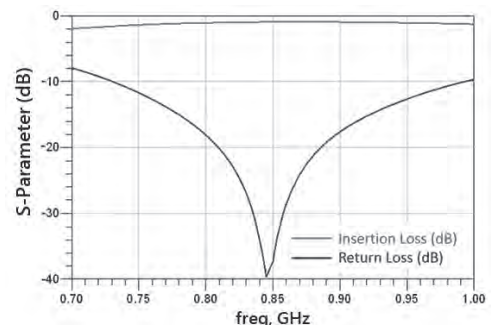
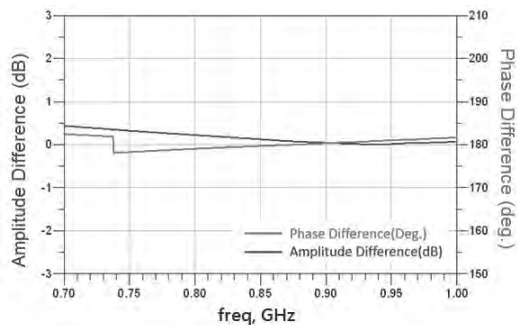
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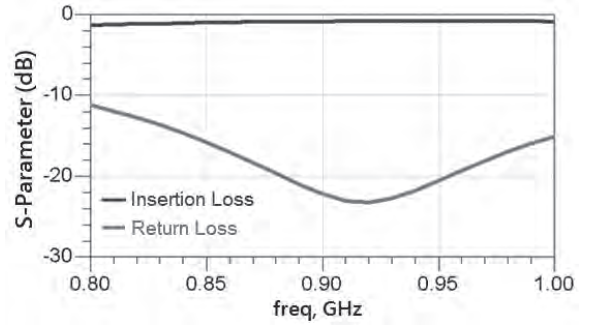
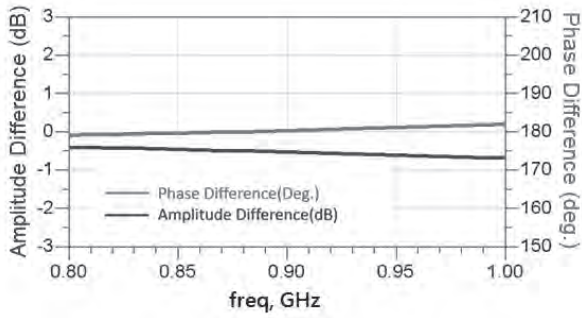


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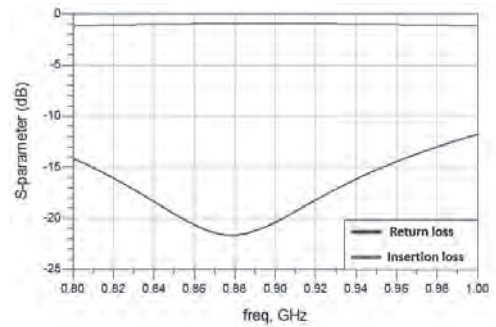
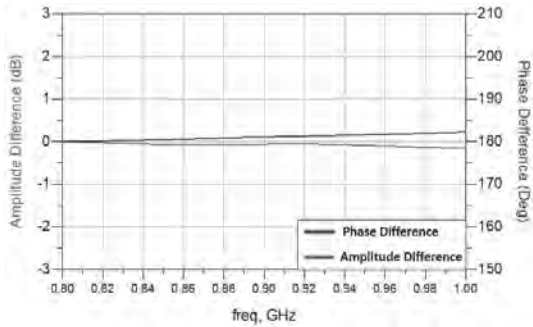


TYPICAL ELECTRICAL CHARACTERISTICS

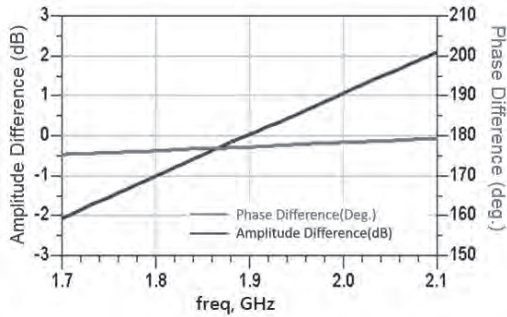
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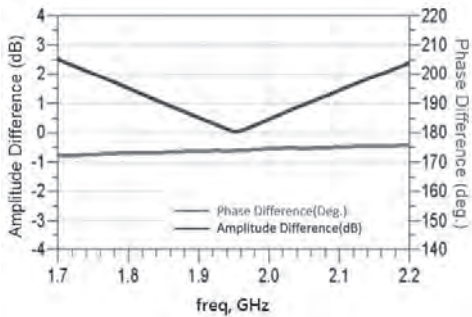
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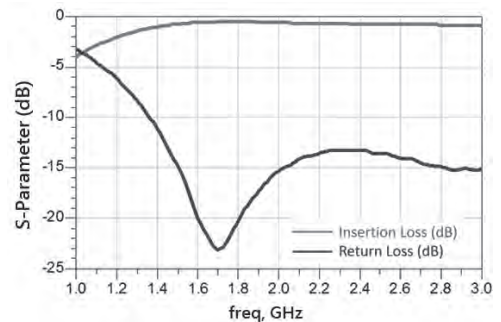
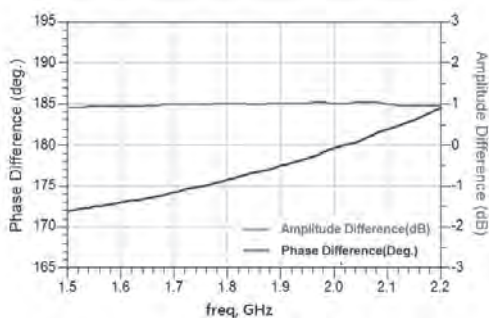
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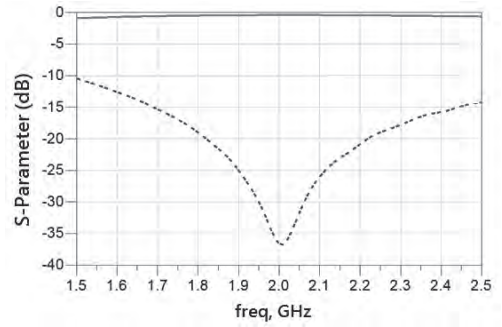
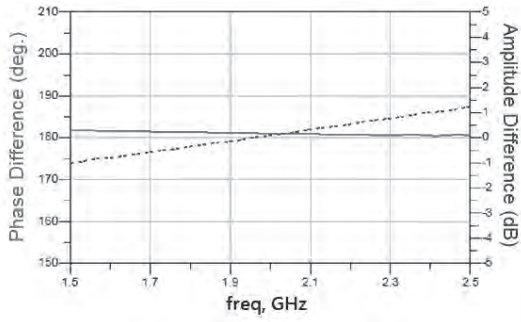


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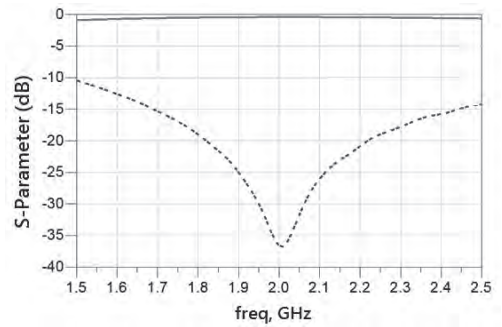
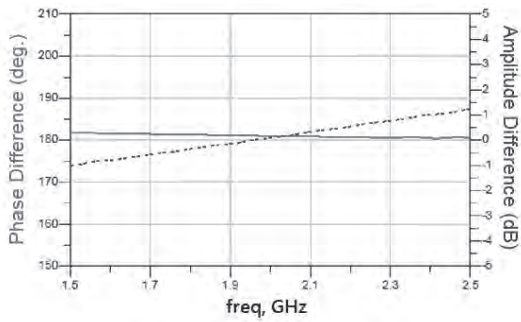


TYPICAL ELECTRICAL CHARACTERISTICS

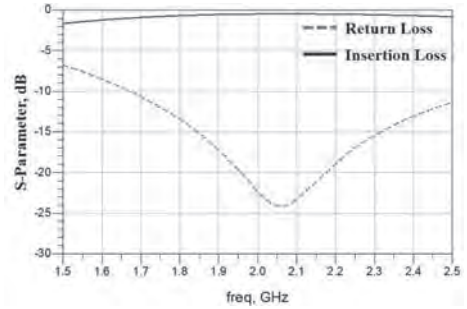
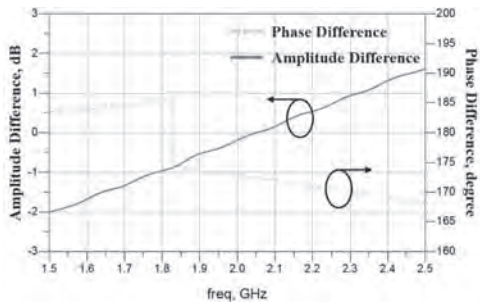
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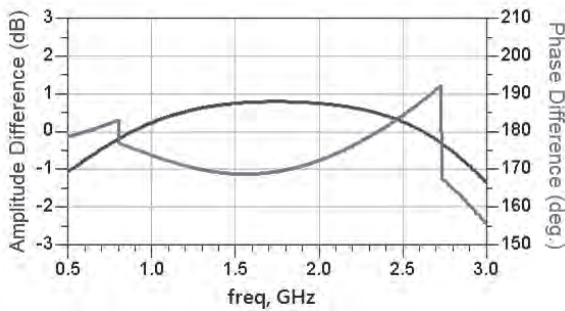
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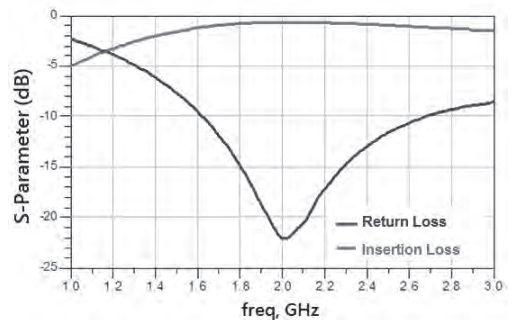
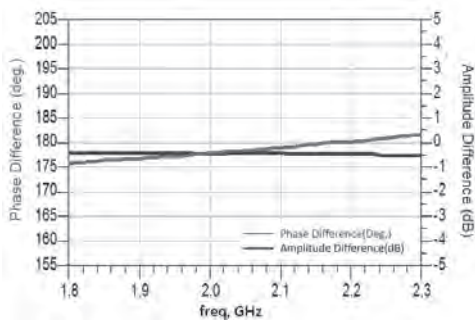
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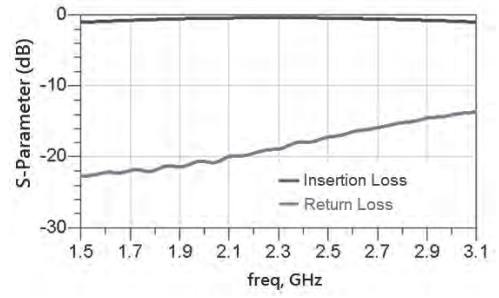
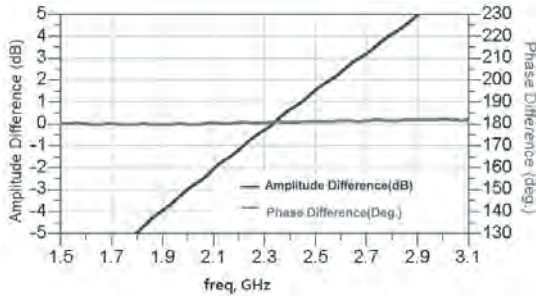


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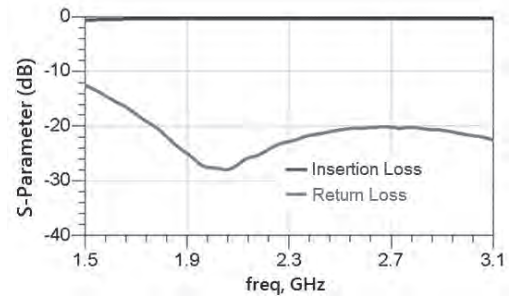
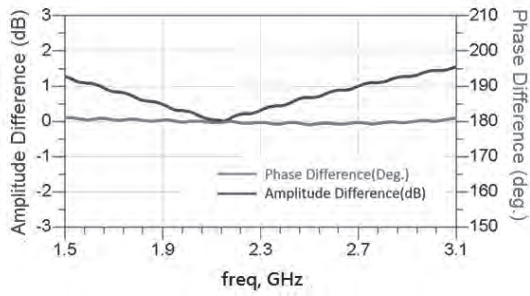


TYPICAL ELECTRICAL CHARACTERISTICS

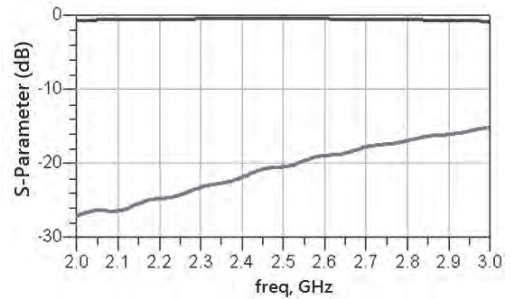
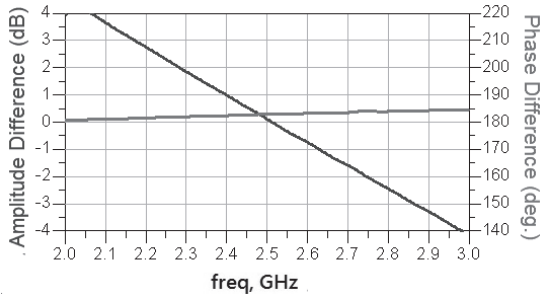
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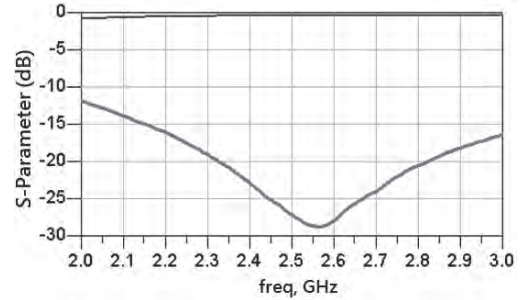
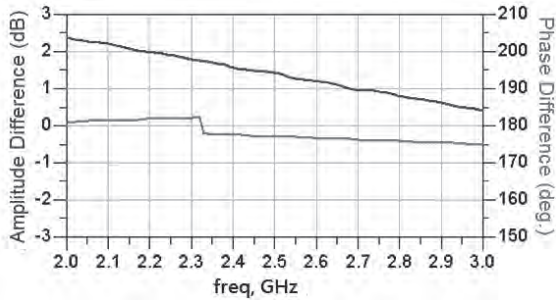
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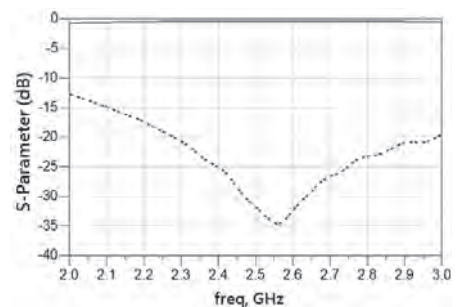
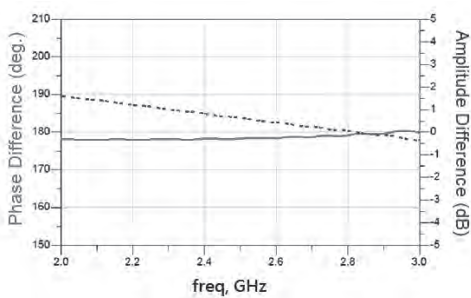
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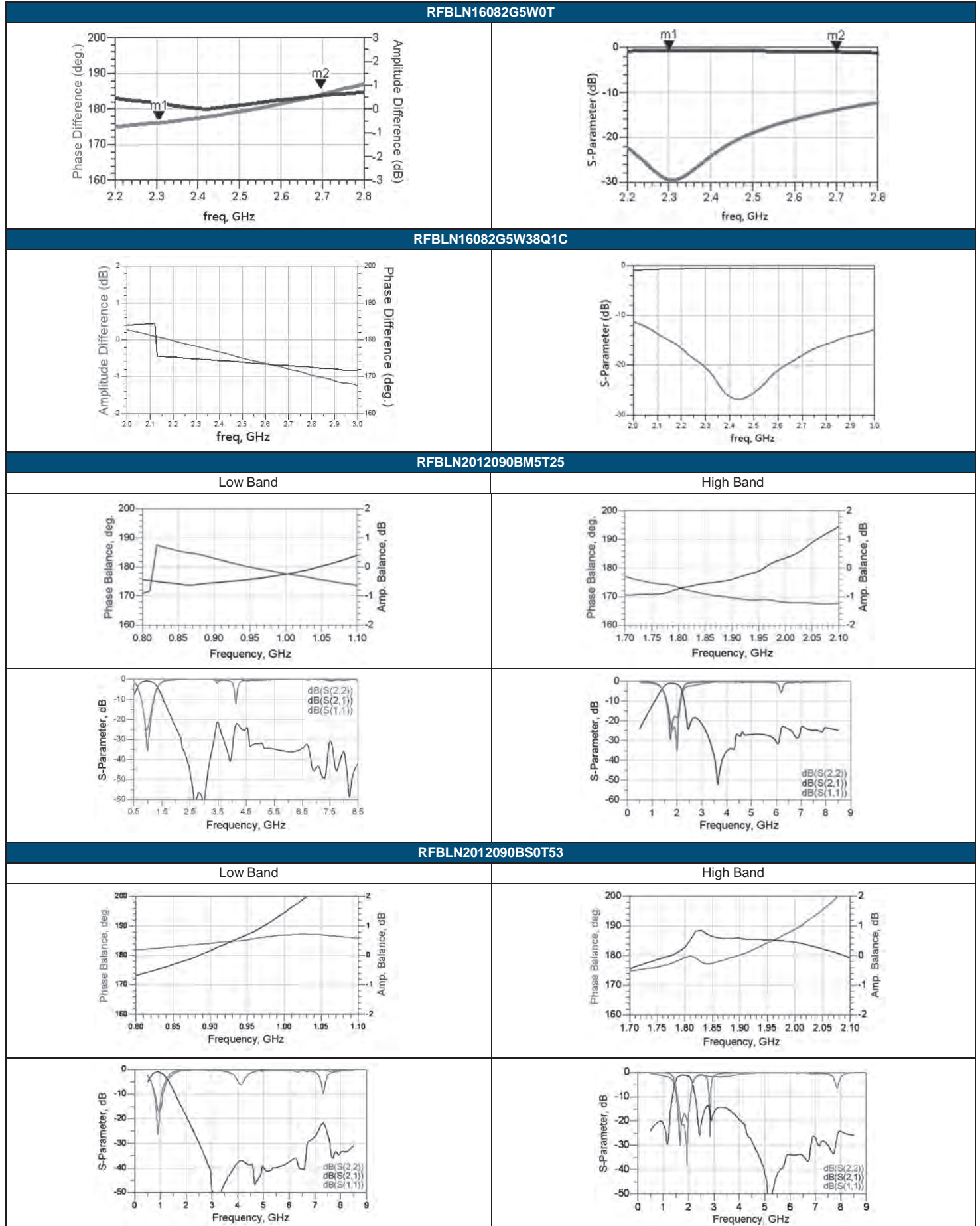
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RFBLN10052G5W37N2T



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				
	<p>STRUCTURE A-1</p> <p>GND Common GND</p> <p>High Band GND Low Band</p>	<p>STRUCTURE A-2</p> <p>GND Common GND</p> <p>Low Band GND High Band</p>	<p>STRUCTURE A-3</p> <p>Low Band GND High Band</p> <p>GND Common GND</p>	<p>STRUCTURE A-4</p> <p>High Band GND Low Band</p> <p>GND Common GND</p>
STRUCTURE B	STRUCTURE C	STRUCTURE D	STRUCTURE E	
STRUCTURE B-1	STRUCTURE C-1	STRUCTURE D-1	STRUCTURE E-1	
STRUCTURE B-2	STRUCTURE C-2	STRUCTURE D-2	STRUCTURE E-2	
STRUCTURE F	STRUCTURE G	STRUCTURE H		

■ **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	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	-
			0.90±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	1.60±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
H	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	-

■ **ELECTRICAL SPECIFICATION**

ISM Band 2.4GHz/5GHz APPLICATION

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1004L10AT	2400~2500	50	0.5(25°C) 0.6(-40~+85°C)	25(4800~6000MHz) 25(7200~7500MHz)	10	-	1.00x0.50x0.40	H
	4900~5900	50	0.8(25°C) 1.3(-40~+85°C)	27(30~2400MHz) 30(2400~2500MHz) 24(2500~2690MHz) 20(9800~11900MHz)				
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)				
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)				
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)				
RFDIP160806LM0T60	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)				

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
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)				
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)				
RFDIP1608060LST	2400-2500	50	0.5(25°C) 0.6(-40~+85°C)	22(4800-5000MHz) 24(7200-7500MHz)	10	-	1.60x0.80x0.60	G
	5100-5900	50	1.1(25°C) 1.3(-40~+85°C)	25(1800-2500MHz) 24(3700-3900MHz) 22(9800-11900MHz)				
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)				
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)				
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)				
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)				
RFDIP1606L51T	2400-2500	50	0.35(25°C) 0.45(-40~+85°C)	20(4800-5000MHz) 22(5000-5950MHz) 20(7200-7500MHz)	10	-	1.60x0.80x0.60	B-2
	4900-5850	50	0.50(25°C) 0.60(-40~+85°C)	26(824-2170MHz) 30(2400-2500MHz) 25(9500-11900MHz)				
RFDIP1606L52T	2400-2500	50	0.40(25°C) 0.45(-40~+85°C)	21(4800-5000MHz) 23(5000-5500MHz) 28(5500-5950MHz) 21(7200-7500MHz)	10	-	1.60x0.80x0.60	B-1
	4900-5850	50	0.50(25°C) 0.60(-40~+85°C)	27(824-2170MHz) 31(2400-2500MHz) 26(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)				

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
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)				
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)				
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)				
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)				
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)				

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
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)				
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)				

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

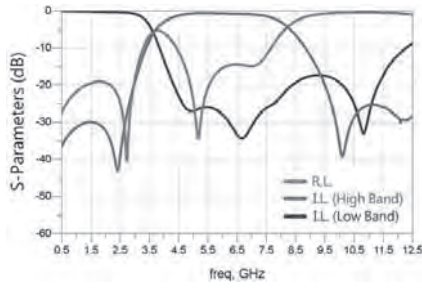
Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)Min.	Size (mm)	Structure
RFDIP1608060T1T	1574-1577	50	0.65	20(2400-2500MHz)	10	1.60x0.80x0.60	B-1
	2400-2500	50	0.8	20(1574-1577MHz)			
RFDIP1608060TM7T62	1570-1610	50	0.6(typ.0.5)	20(2400-2500MHz) 20(4900-5900MHz)	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)			
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)			
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)			

892 MHz & 1.94GHz Band Working Frequency

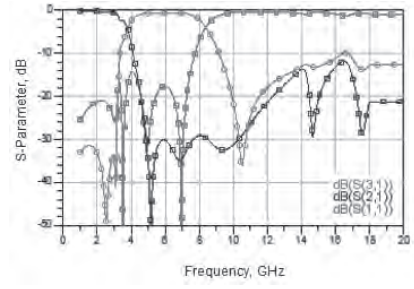
Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)Min.	Size (mm)	Structure
RFDIP1608070GM1T76	698-960	50	0.8(typ.0.45)	25(1710-2700MHz)	10	1.60x0.80x0.60	D-2
	1710-2700		0.7(typ.0.50)	20(698-960MHz) 20(5150-5850MHz)			
RFDIP2012070G5T	570-960	50	0.75	20(1427-2700MHz)	10	2.00x1.25x0.70	C-1
	1427-2700		0.85	20(570-960MHz)			
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-1
	1710-2690		0.55(25°C) 0.65(-40~+85°C)	19(698-960MHz)			
RFDIP2520100G2T	698-960	50	0.35(25°C) 0.45(-40~+85°C)	20(1710-2690MHz)	10	2.50x2.00x1.00	F
	1710-2690		0.55(25°C) 0.65(-40~+85°C)	25(698-960MHz) 5(3420-3820MHz)			

■ **TYPICAL ELECTRICAL CHARACTERISTICS**

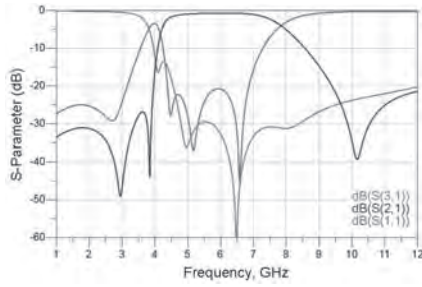
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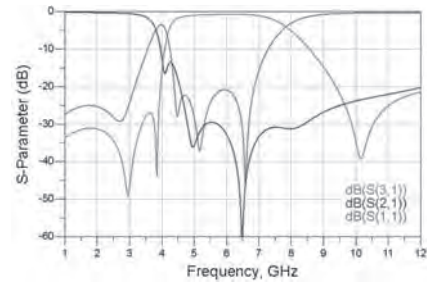
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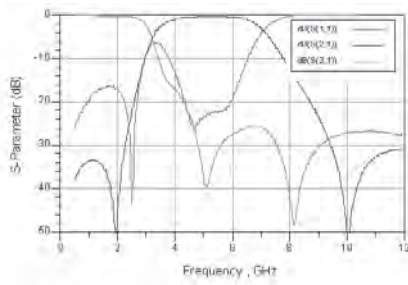
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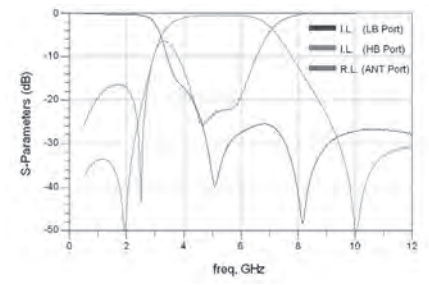
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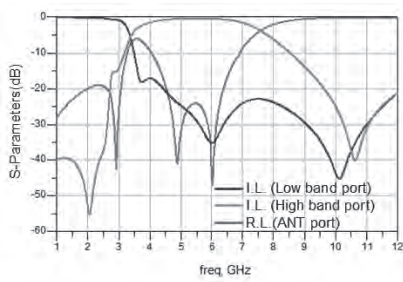
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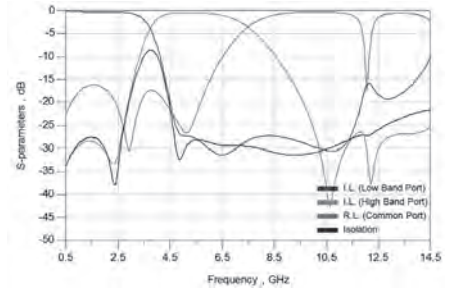
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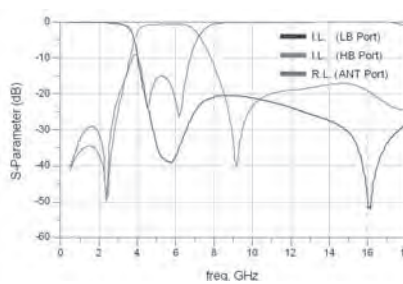
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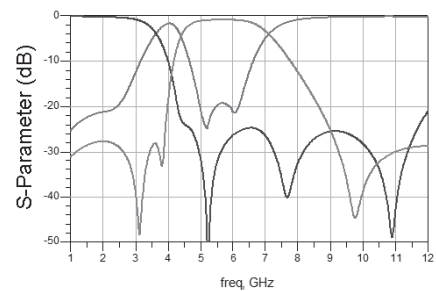
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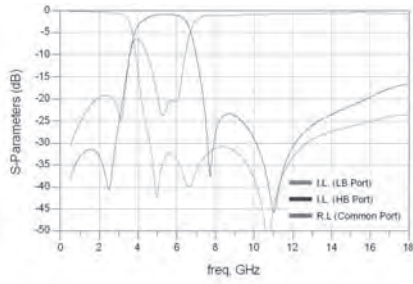


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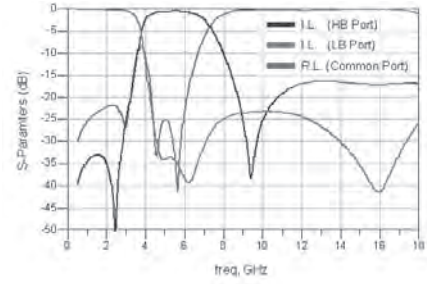


TYPICAL ELECTRICAL CHARACTERISTICS

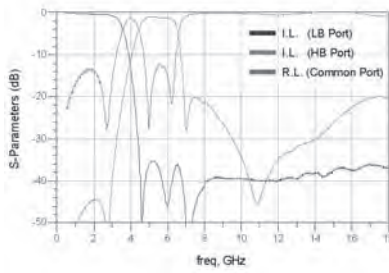
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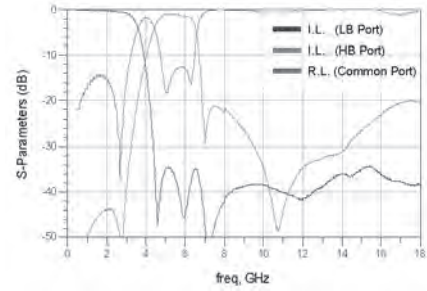
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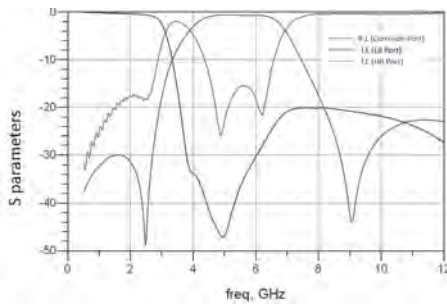
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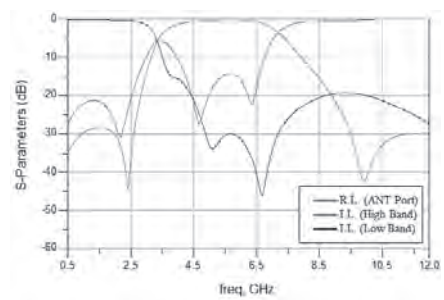
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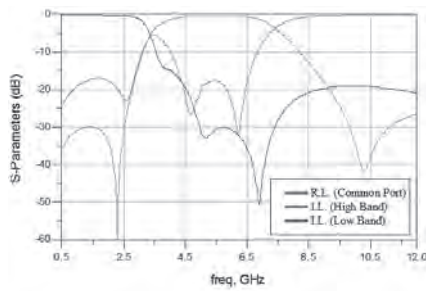
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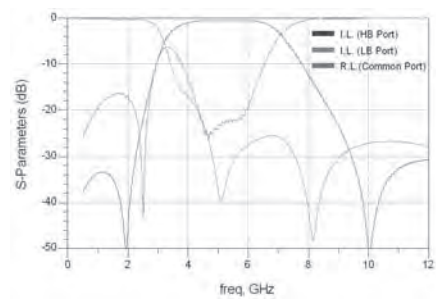
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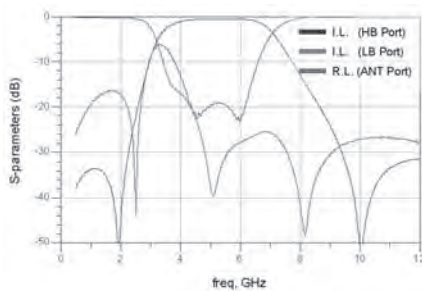
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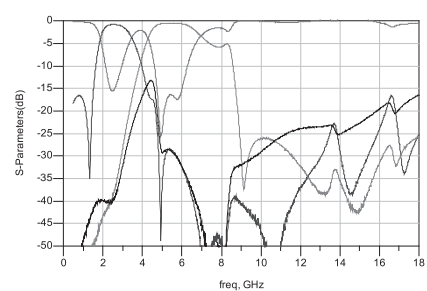
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RFDIP1606L54T

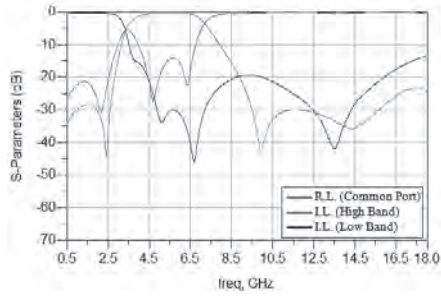


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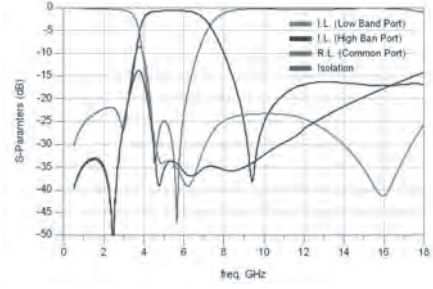


TYPICAL ELECTRICAL CHARACTERISTICS

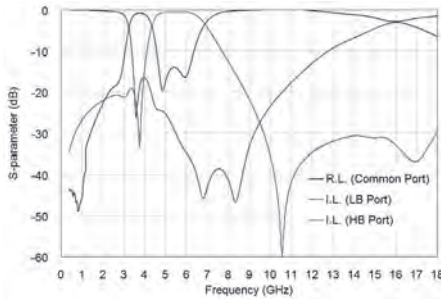
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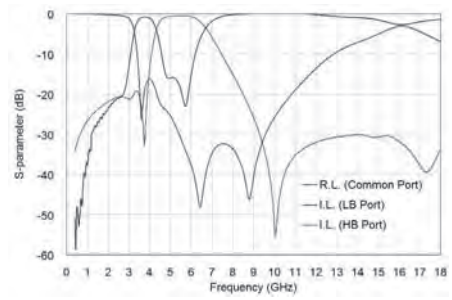
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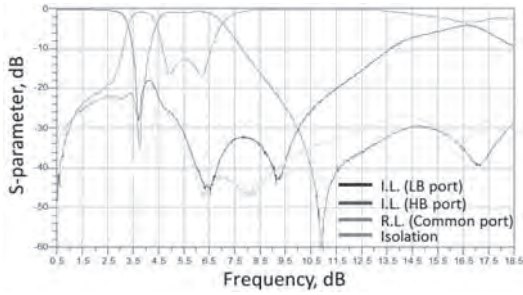
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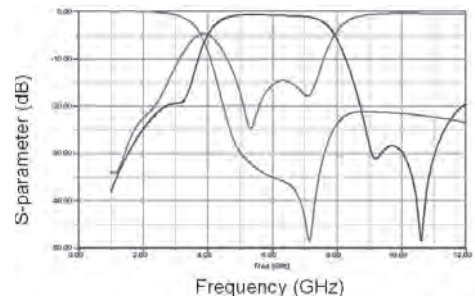
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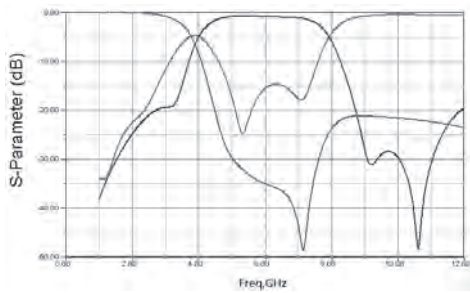
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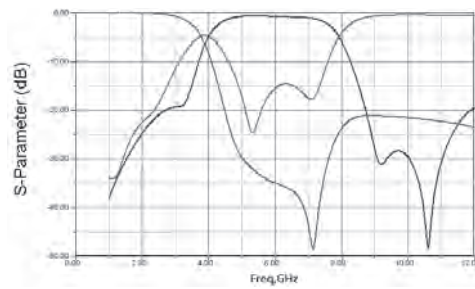
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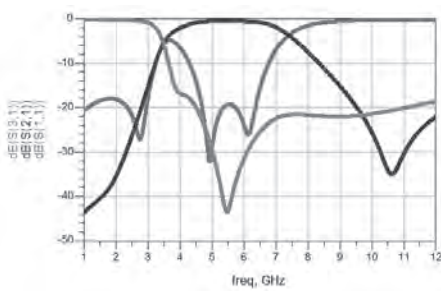
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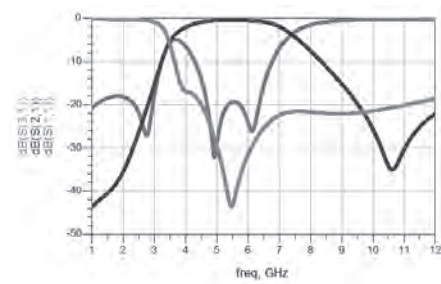
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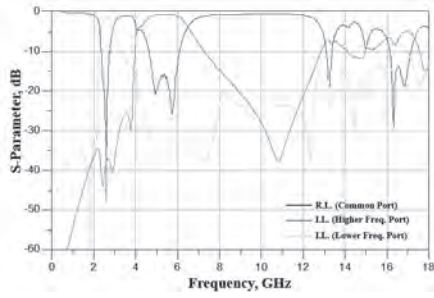


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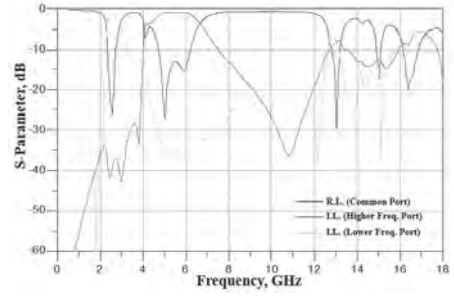


TYPICAL ELECTRICAL CHARACTERISTICS

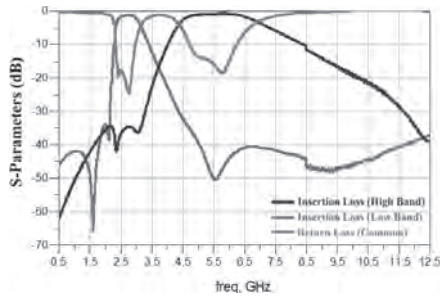
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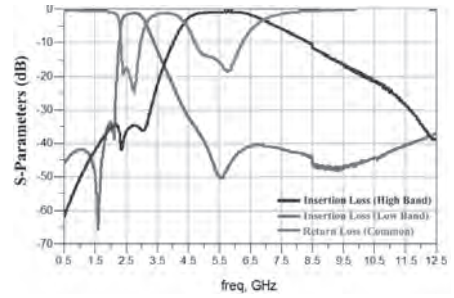
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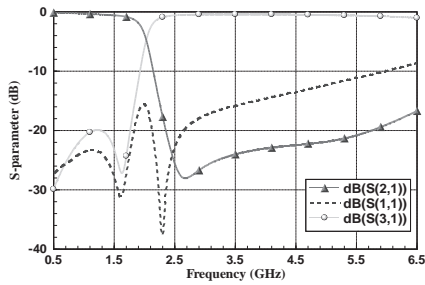
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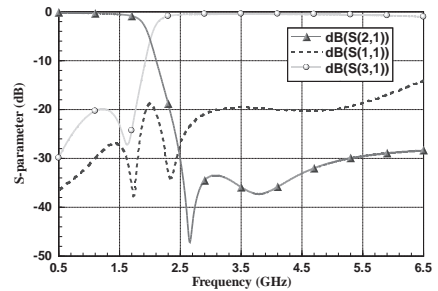
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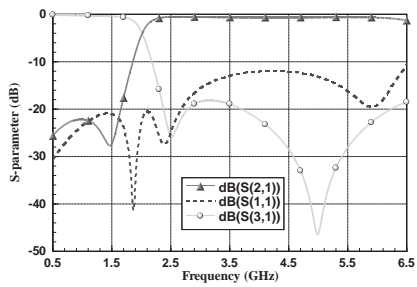
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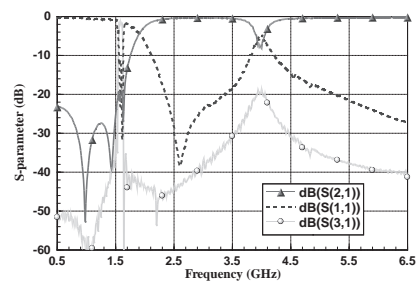
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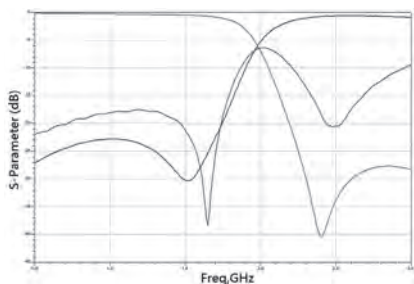
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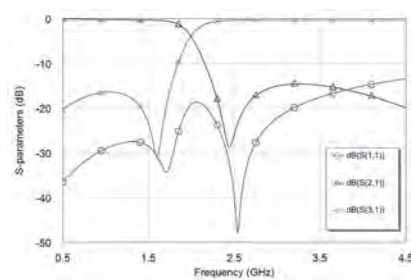
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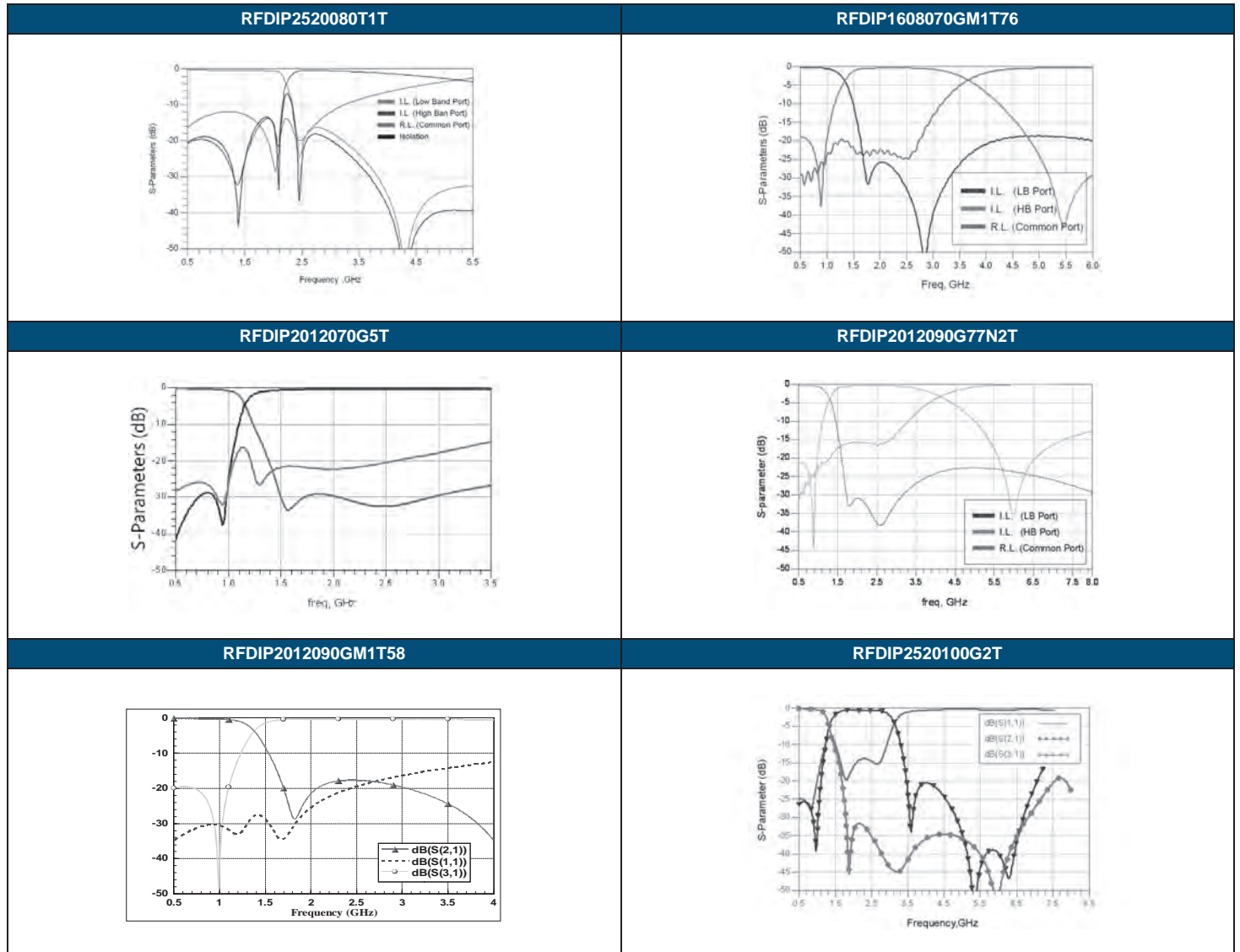
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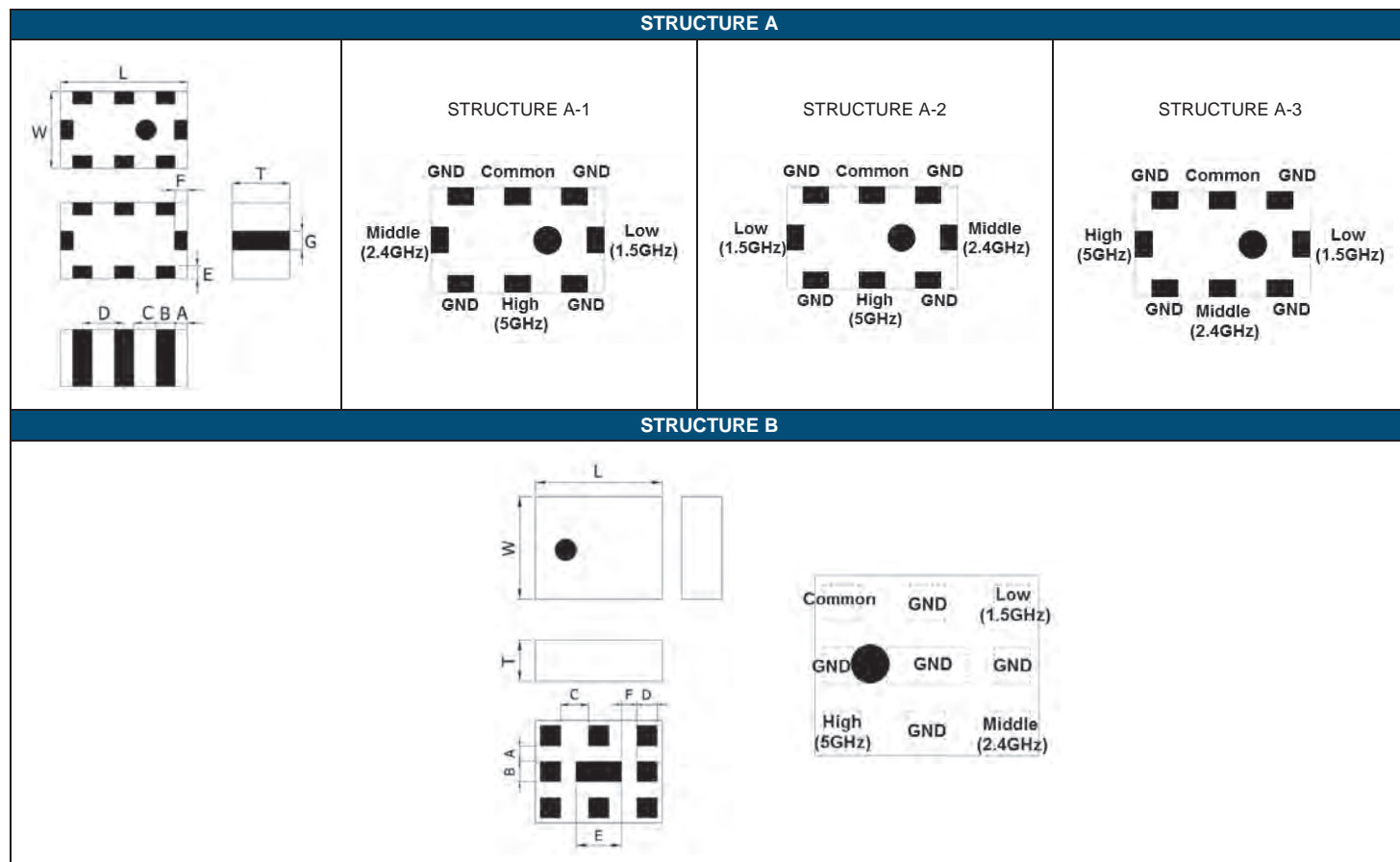
TYPICAL ELECTRICAL CHARACTERISTICS



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

TRIPLEXER

■ **STRUCTURE AND PIN ASSOCIATED**



■ **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

■ **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
RFTIP2012090T18Q1C	1560-1606	50	0.6	15(2400-2500 MHz) 15(4800-6000 MHz)	10	-	2.00x1.25x0.90	A-1
	2400-2500	50	0.7	10(860-960 MHz) 15(1545-1605 MHz) 10(3600-3750 MHz) 20(4800-6000 MHz) 10(7200-7500 MHz) 10(9600-10000 MHz)	10	20(1559-1606 MHz) 25(4800-5000 MHz)		
	4900-5950	50	0.8	25(860-960 MHz) 25(1545-1605 MHz) 25(1710-1990 MHz) 30(2170 MHz) 10(8100-8800 MHz) 15(8820-9800 MHz) 25(9800-11900 MHz)	10	20(1559-1606 MHz)		

■ ELECTRICAL SPECIFICATION

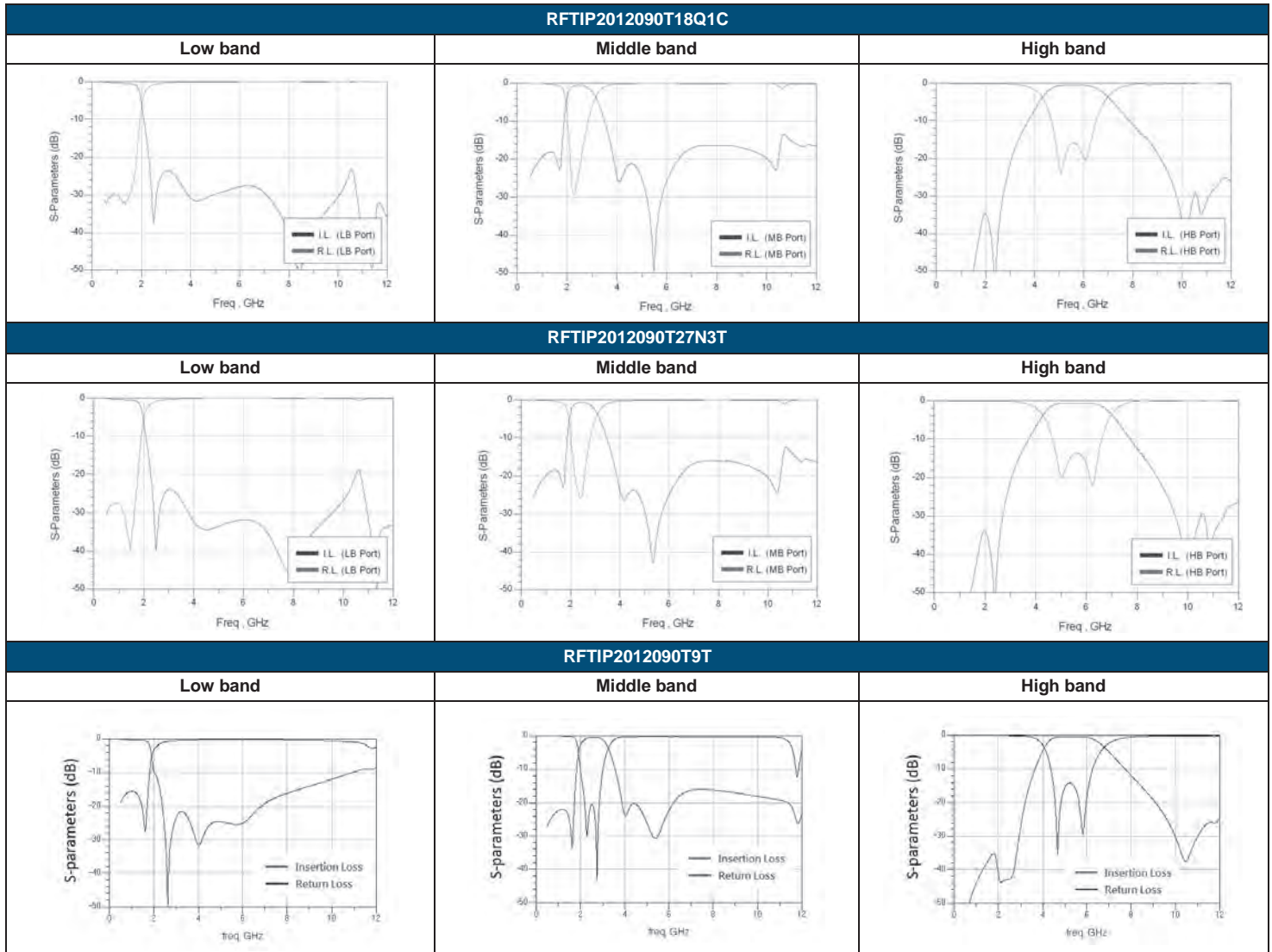
GPS 1.575GHz/ ISM 2.4GHz/5GHz band RF application

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(2400-2500 MHz) 20(4900-6000 MHz)	10	-	2.00x1.25x0.90	A-2
	2400-2500	50	0.70(25°C) 0.85(-40~+85°C)	10(860-960 MHz) 15(1545-1610 MHz) 10(3600-3750 MHz) 20(4800-6000 MHz) 10(7200-7500 MHz) 10(9600-10000 MHz)	10	20(1559-1606 MHz) 20(4800-5000 MHz)		
	4900-5950	50	0.80(25°C) 0.95(-40~+85°C)	25(1559-1606 MHz) 35(2400-2500 MHz) 12(3400-3600 MHz) 12(3600-3900 MHz) 10(6900-7200 MHz) 10(7200-7800 MHz) 25(10300-11700 MHz) 15(15300-16200 MHz)	10	20(1559-1606 MHz)		
RFTIP2012090T9T	1560-1606	50	0.7	15(2400-2500 MHz) 15(4800-6000 MHz)	10	-	2.00x1.25x0.90	A-3
	2400-2500	50	0.8	10(860-960 MHz) 15(1545-1605 MHz) 8(3600-3750 MHz) 20(4800-5000 MHz) 10(7200-7500 MHz) 10(9600-10000 MHz)	10			
	4900-5950	50	0.9	25(860-960 MHz) 25(1545-1605 MHz) 25(1710-1990 MHz) 30(2170 MHz) 38(2400-2500 MHz) 8(8100-8800 MHz) 15(8820-9800 MHz) 22(9800-11900 MHz)	10			
RFTIP2012090TLT	1560-1606	50	0.70(25°C) 0.80(-40~+85°C)	14(2400-2500 MHz) 15(4800-6000 MHz)	10	-	2.00x1.25x0.90	A-1
	2400-2500	50	0.80(25°C) 0.95(-40~+85°C)	10(860-960 MHz) 10(1545-1605 MHz) 8(3600-3750 MHz) 20(4800-5000 MHz) 10(7200-7500 MHz) 5(9600-10000 MHz)	10			
	4900-5950	50	0.90(25°C) 1.10(-40~+85°C)	24(860-960 MHz) 24(1545-1605 MHz) 25(1710-1990 MHz) 25(2170 MHz) 0.2(3920-4720 MHz) 10(8100-8800 MHz) 14(8820-9800 MHz) 20(9800-11900 MHz)	10			
RFTIP2109ATM0T63	1560-1606	50	0.60(25°C) 0.80(-40~+85°C)	15(2400-2500 MHz) 15(4800-6000 MHz)	10	-	2.00x1.25x0.90	A-1
	2400-2500	50	0.70(25°C) 0.90(-40~+85°C)	10(860-960 MHz) 15(1545-1605 MHz) 10(3600-3750 MHz) 20(4800-5000 MHz) 10(7200-7500 MHz) 10(9600-10000 MHz)	10	20(1559-1606 MHz) 25(4800-5000 MHz)		
	4900-5950	50	0.80(25°C) 1.00(-40~+85°C)	25(860-960 MHz) 25(1545-1605 MHz) 25(1710-1990 MHz) 30(2170 MHz) 10(8100-8800 MHz) 15(8820-9800 MHz) 25(9800-11900 MHz)	10	25(1559-1606 MHz)		

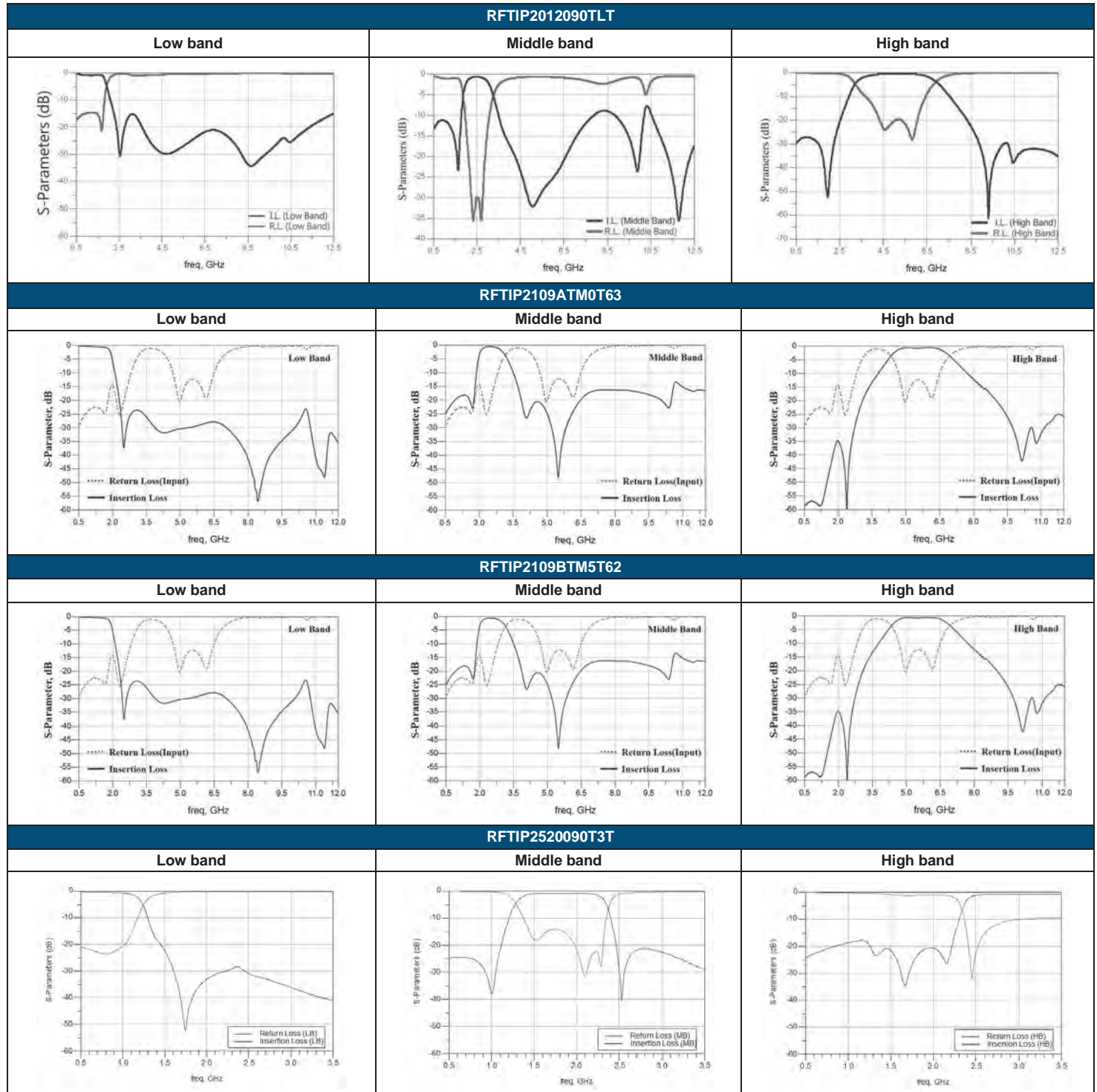
GPS 1.575GHz/ ISM 2.4GHz/5GHz band RF application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFTIP2109BTM5T62	1560-1606	50	0.60(25°C) 0.80(-40~+85°C)	15(2400-2500 MHz) 15(4800-6000 MHz)	10	-	2.00x1.25x0.90	A-2
	2400-2500	50	0.70(25°C) 0.90(-40~+85°C)	10(860-960 MHz) 15(1545-1605 MHz) 10(3600-3750 MHz) 20(4800-5000 MHz) 10(7200-7500 MHz) 10(9600-10000 MHz)	10	20(1559-1606 MHz) 25(4800-5000 MHz)		
	4900-5950	50	0.80(25°C) 1.00(-40~+85°C)	25(860-960 MHz) 25(1545-1605 MHz) 25(1710-1990 MHz) 30(2170 MHz) 10(8100-8800 MHz) 15(8820-9800 MHz) 25(9800-11900 MHz)	10	25(1559-1606 MHz)		
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	C
	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



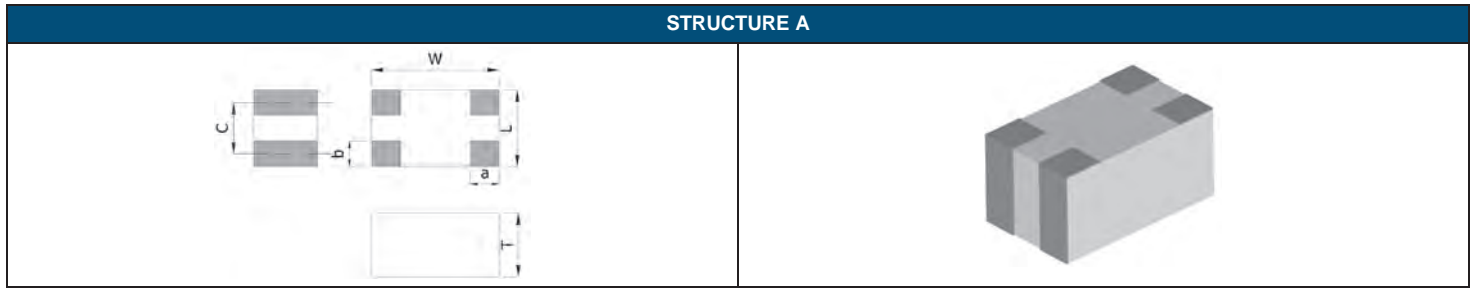
TYPICAL ELECTRICAL CHARACTERISTICS



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

COMMON MODE FILTER

■ **STRUCTURE AND PIN ASSOCIATED**



■ **STRUCTURE AND DIMENSION**

Unit: mm

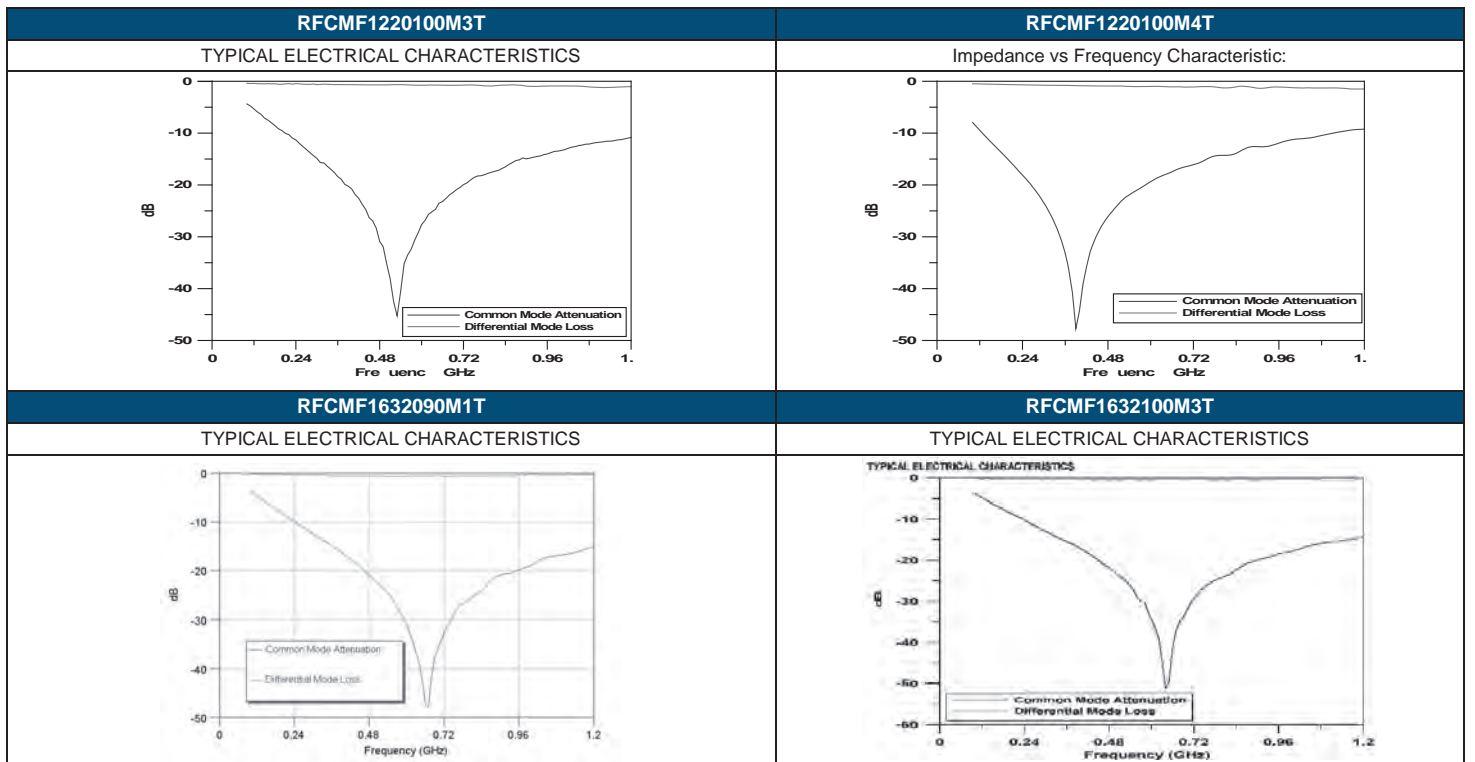
Structure\ Dimension	L	W	T	a	b	c
A	1.20+0.40 -0.20	2.00+0.40 -0.20	1.00±0.20	0.45±0.20	0.40±0.20	0.80±0.10
	1.60±0.20	3.20±0.20	0.95±0.20	0.60±0.20	0.50±0.20	1.10±0.20
			1.00±0.20	0.60±0.20	0.50±0.20	1.10±0.20

■ **ELECTRICAL SPECIFICATION**

DISCRETE CMF for HIGH SPEED TRANSMISSION LINES USB2.0 IEEE1394 LVDS(mini)

Part Number	Characteristic Impedance (Differential)	Common Mode Attenuation (Min.)	DC Resistance (Ω) max.	Rated Current (mA)	Size(mm)	Structure
RFCMF1220100M3T	90 ohm	9.0(240MHz ~ 1GHz)	1.5	300	1.20x2.00x1.00	A
RFCMF1220100M4T	90 ohm	9.0(130 MHz ~ 1GHz)	2.5	200	1.20x2.00x1.00	A
RFCMF1632090M1T	90 ohm	9.0(140 MHz ~ 1.0 GHz)	1.5	300	1.60x3.20x0.95	A
RFCMF1632100M3T	90 ohm	9.0(240 MHz ~ 1.0 GHz)	1.5	300	1.60x3.20x1.00	A

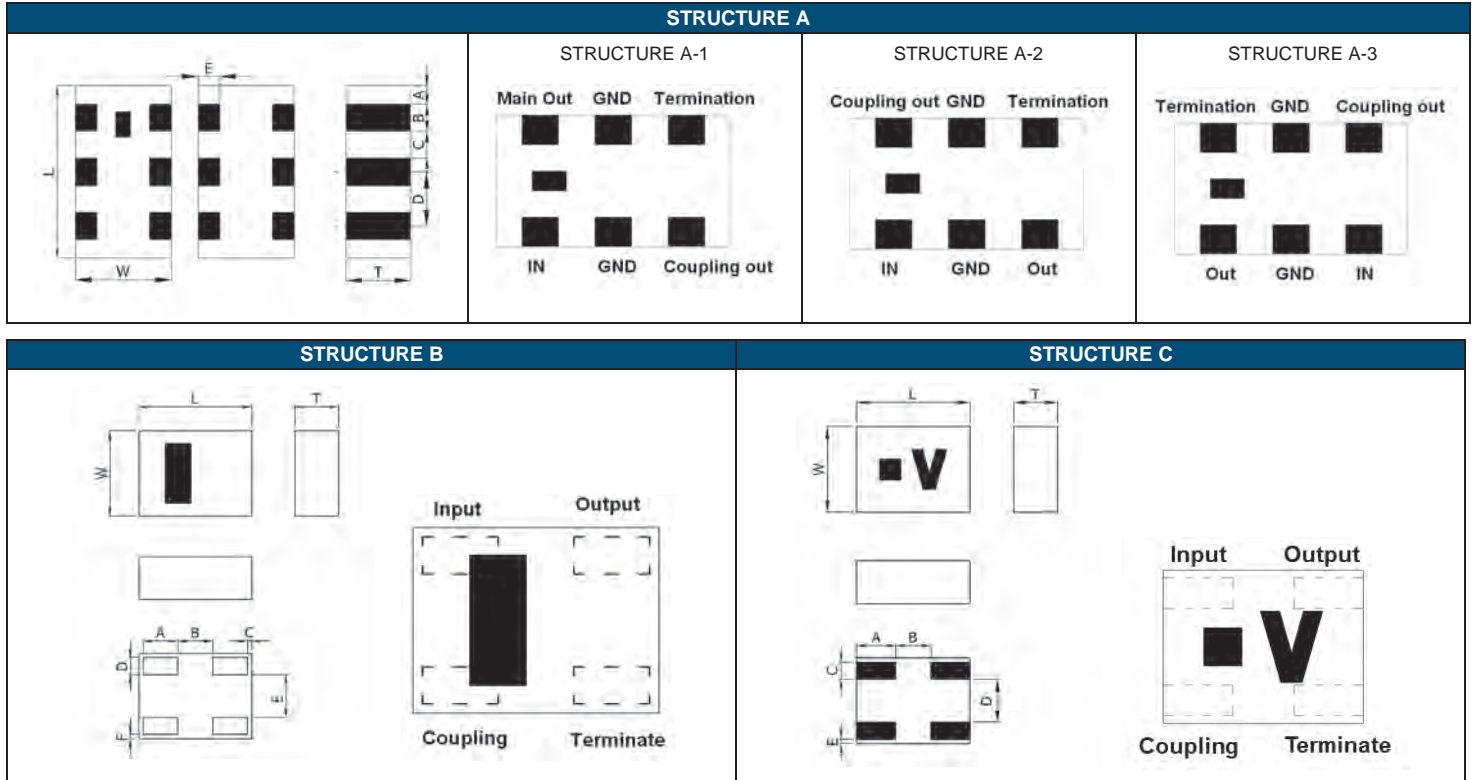
■ **TYPICAL ELECTRICAL CHARACTERISTICS**



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- All specifications are subject to change without notice

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

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		

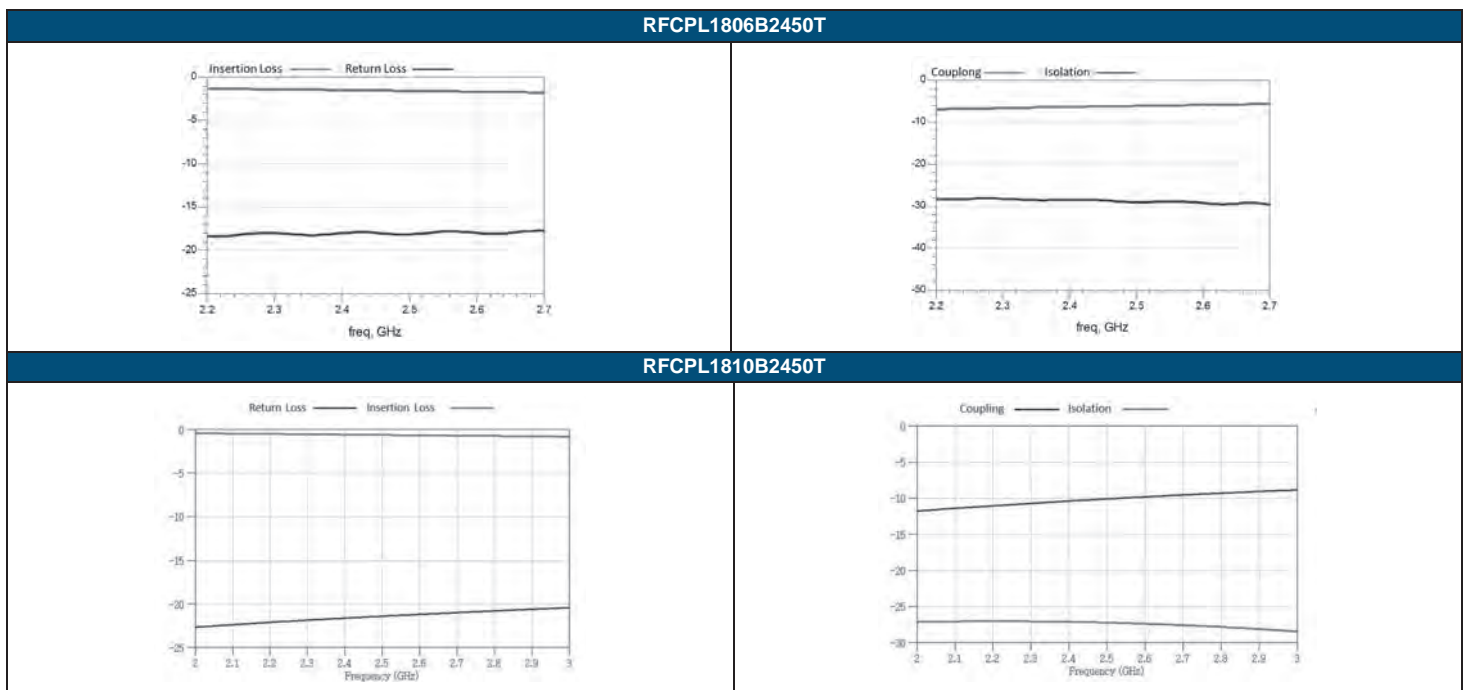
ISM Band 2.4/5GHz Application

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

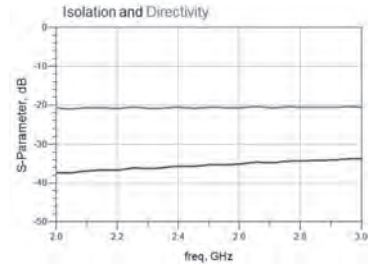
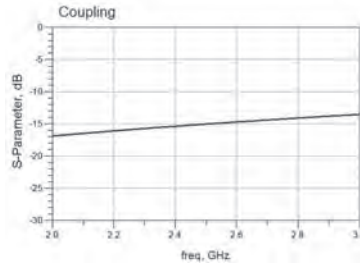
Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm ³)	Structure
RFCPL1608070P08Q1C	698-2690	0.20(698-960MHz) 0.22(1427.9-2170MHz) 0.25(2300-2690MHz)	23.0-27.0(698-915MHz) 21.5-26.5(1427.9-2025MHz) 22.5-27.5(2300-2620MHz)	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

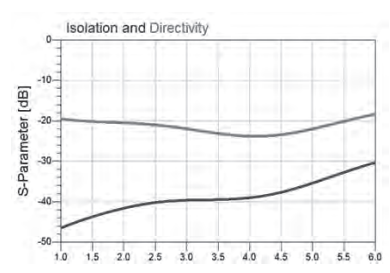
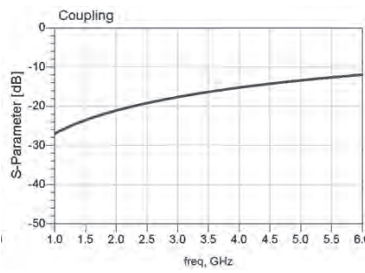
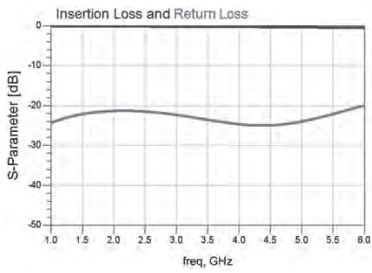


TYPICAL ELECTRICAL CHARACTERISTICS

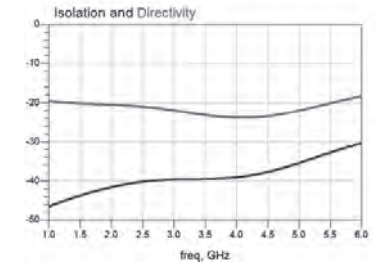
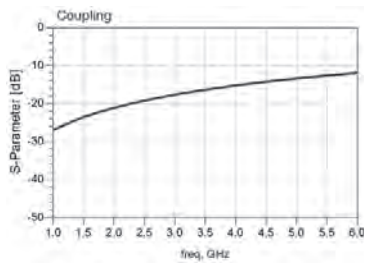
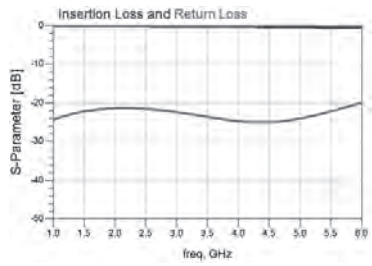
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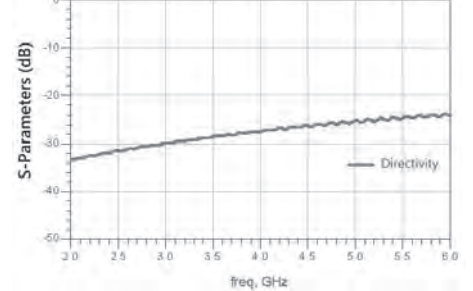
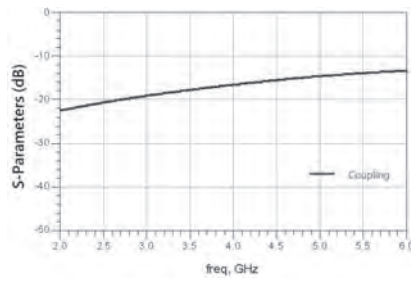
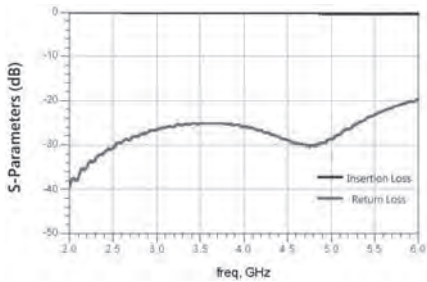
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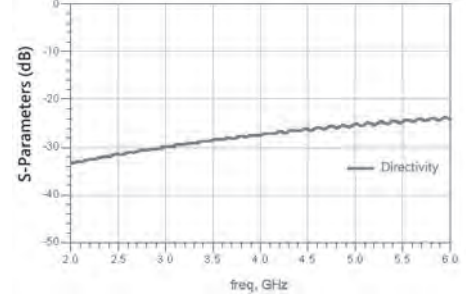
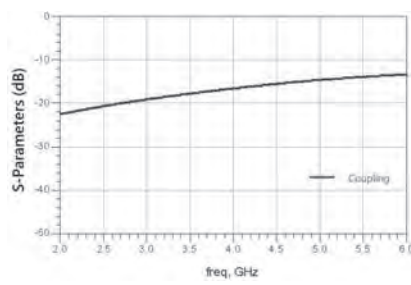
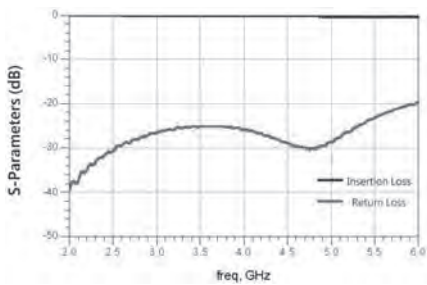
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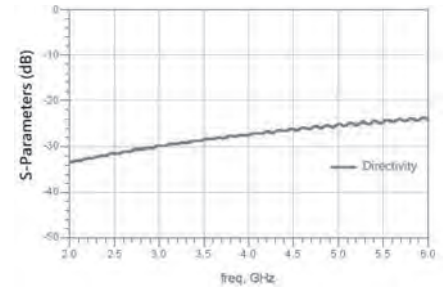
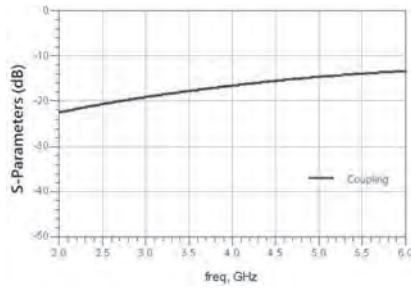
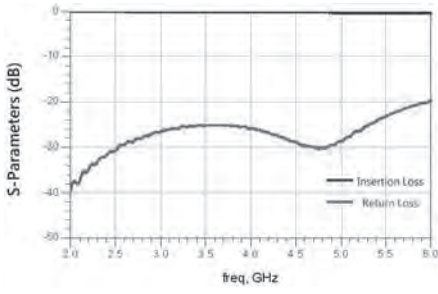


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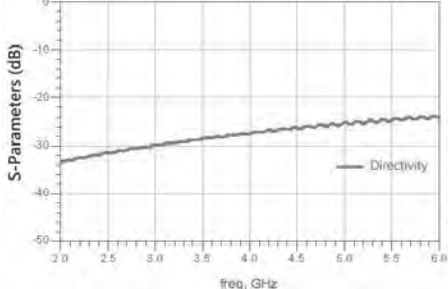
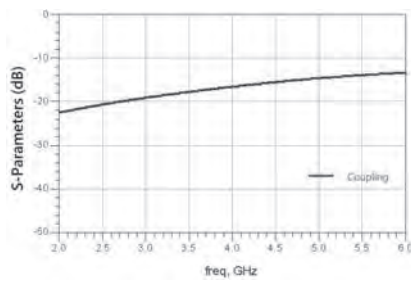
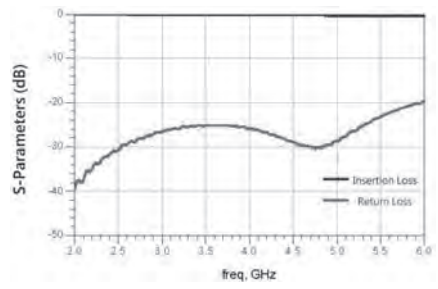


TYPICAL ELECTRICAL CHARACTERISTICS

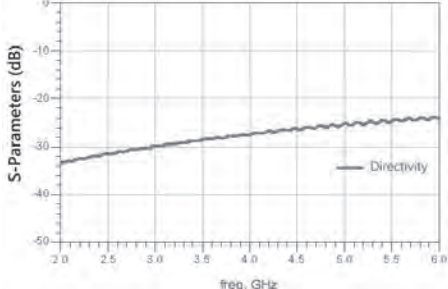
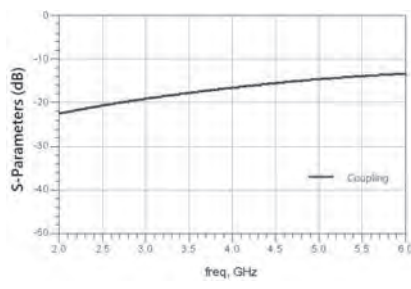
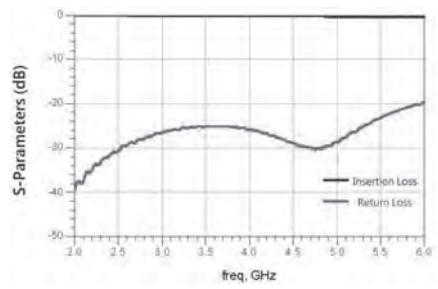
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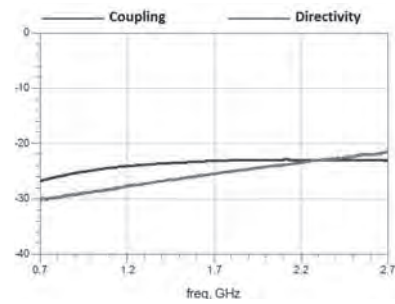
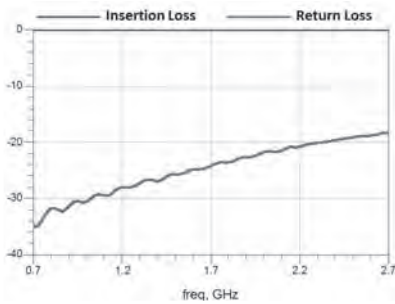
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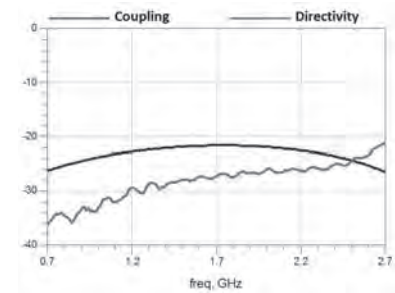
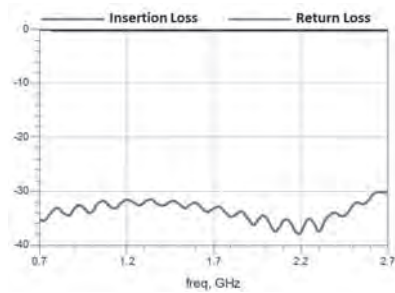
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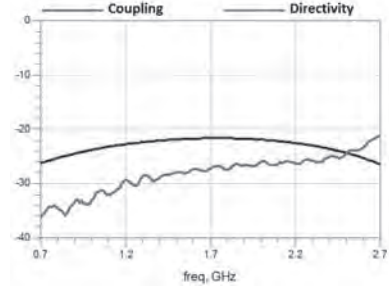
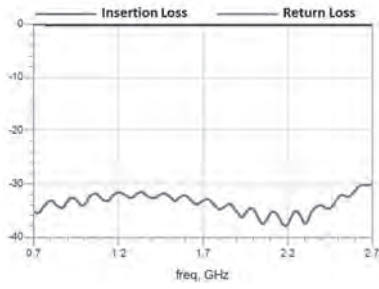


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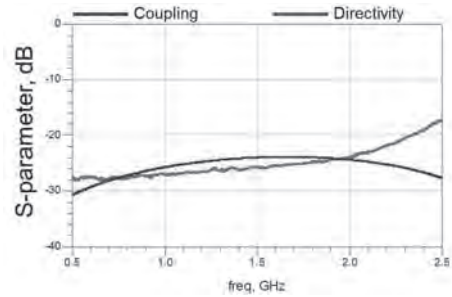
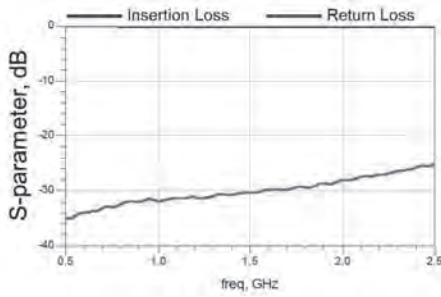


TYPICAL ELECTRICAL CHARACTERISTICS

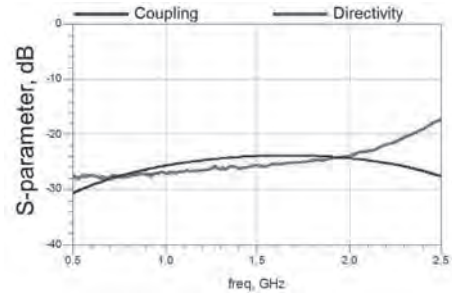
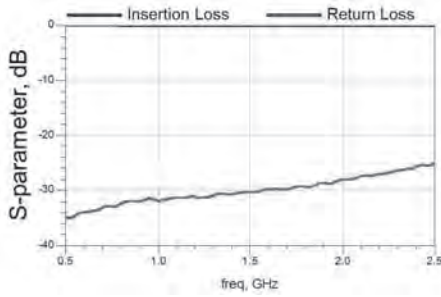
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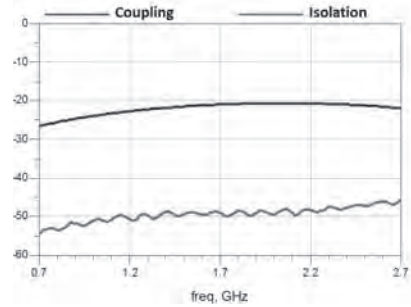
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RFCPL1608070PKT



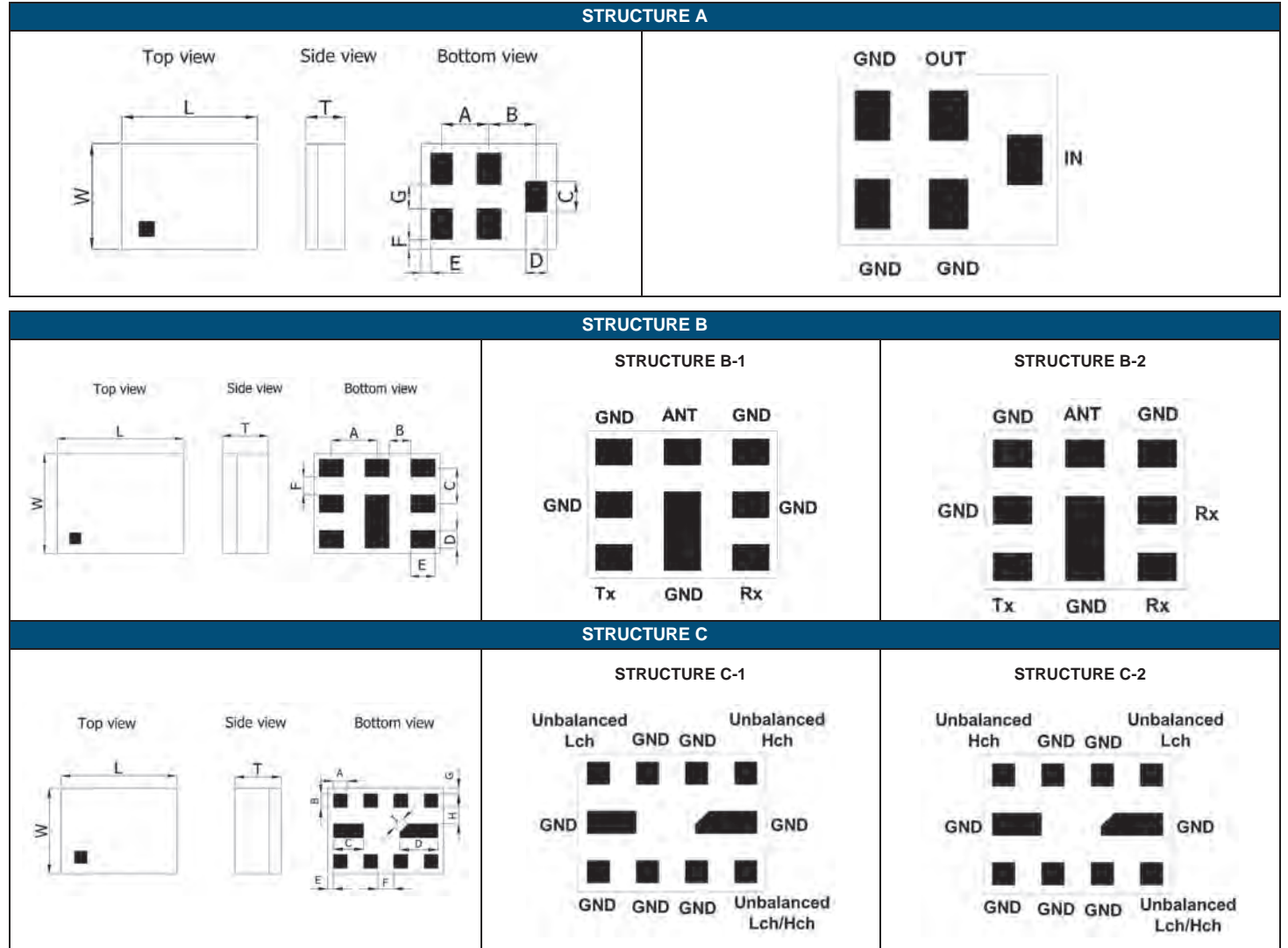
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- For more information, please contact with local sales representative
- All specifications are subject to change without notice

SAW Filter

■ STRUCTURE AND PIN ASSOCIATED



■ STRUCTURE AND DIMENSION

Unit: mm

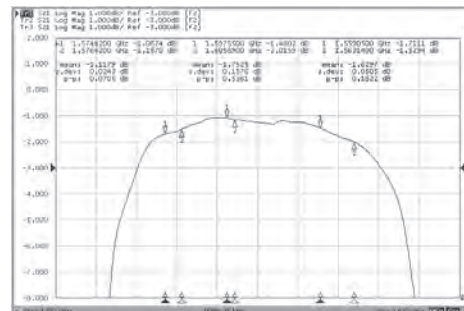
Structure Dimension	L	W	T	A	B	C	D	E	F	G	H	I
A	1.10±0.10	0.90±0.10	0.50max.	0.40	0.40	0.25	0.20	0.05	0.075	0.25	-	-
	1.40±0.13	1.10±0.13	0.65max.	0.50	0.50	0.325	0.25	0.075	0.10	0.25	-	-
B	1.80±0.10	1.40±0.10	0.65max.	0.65	0.30	0.50	0.25	0.35	0.25	-	-	-
C	1.50±0.10	1.10±0.10	0.60max.	0.18	0.18	0.39	0.49	0.075	0.21	0.07	0.21	0.15

■ ELECTRICAL SPECIFICATION

Application	Type	Part Number	Band	Frequency(MHz)	Package (mm)	STRUCTURE
GPS/Wifi	GPS SAW 3 Mode	SF11091582GC2T	GPS+G+C	1559.05-1605.89	1.1 x 0.9	A
	GPS SAW 3 Mode	SF14111582GC01T	GPS+G+C	1559.05-1605.66	1.4 x 1.1	A
	SAW	SF11092450A04T	WLAN	2400-2500	1.1 x 0.9	A
	SAW	SF14112450A03T	WLAN	2400-2500	1.4 x 1.1	A
	SAW	SF14112442A01T	WLAN	2400-2484	1.4 x 1.1	A
	SAW	SF14112442A03T	WLAN	2401-2483	1.4 x 1.1	A
FDD LTE	SAW Duplexer	DF18141950B104T	B1	1920-1980/2110-2170	1.8 x 1.4	B-1
	SAW Duplexer	DF18140836B511T	B5	824-849/869-894	1.8 x 1.4	B-1
	SAW Duplexer	DF18141880B203T	B2	1850.48-1909.52/1930.48-1989.52	1.8 x 1.4	B-1
	SAW Duplexer	DF18141747B303T	B3	1712.5-1782.5/1807.5-1877.5	1.8 x 1.4	B-1
	SAW Duplexer	DF18142535B705T	B7	2500-2570/2620-2690	1.8 x 1.4	B-1
	SAW Duplexer	DB18142140B102T	B1	1920-1980/2110-2170	1.8 x 1.4	B-2
	SAW Duplexer	DB18140881B507T	B5	824-849/869-894	1.8 x 1.4	B-2
	SAW Duplexer	DB18140942B801T	B8	880-915/925-960	1.8 x 1.4	B-2
FDD LTE	RX SAW	SF11092140B102T	B1	2110-2170	1.1 x 0.9	A
	RX SAW	SF11091960B201T	B2	1930-1990	1.1 x 0.9	A
	RX SAW	SF11091842B305T	B3	1805-1880	1.1 x 0.9	A
	RX SAW	SF11090881B506T	B5	869-894	1.1 x 0.9	A
	RX SAW	SF11092655B702T	B7	2620-2690	1.1 x 0.9	A
	RX SAW	SF11090942B805T	B8	925-960	1.1 x 0.9	A
TDD LTE	Rx Dual SAW	BF1511B394101AT	B39/B41	1880-1920/2550-2655	1.5 x 1.1	C-2
	Rx Dual SAW	BF1511B394101BT	B39/B41	1880-1920/2550-2655	1.5 x 1.1	C-1
TDD LTE	TRx SAW	SF14112595B3803T	B38	2570-2620	1.4 x 1.1	A
	TRx SAW	SF14112350B4001T	B40	2300-2400	1.4 x 1.1	A
	TRx SAW	SF14112605B41S4T	B41	2550-2655	1.4 x 1.1	A
	TRx SAW	SF14112593B4102T	B41	2496-2690	1.4 x 1.1	A
	TRx SAW	SF14112017B3402T	B34	2010-2025	1.4 x 1.1	A
	TRx SAW	SF14111900B3906T	B39	1880-1920	1.4 x 1.1	A
	TRx SAW	SF11092595B3804T	B38	2570-2620	1.1 x 0.9	A
	TRx SAW	SF11092350B4004T	B40	2300-2400	1.1 x 0.9	A
	TRx SAW	SF11092595B4108T	B41	2535-2655	1.1 x 0.9	A
	TRx SAW	SF11092017B3403T	B34	2010-2025	1.1 x 0.9	A
	TRx SAW	SF11091900B3907T	B39	1880-1920	1.1 x 0.9	A
TDD LTE	Rx SAW	SF11092595B3805T	B38	2570-2620	1.1 x 0.9	A
	Rx SAW	SF11092350B4005T	B40	2300-2400	1.1 x 0.9	A
	Rx SAW	SF11092602B41W9T	B41	2550-2655	1.1 x 0.9	A

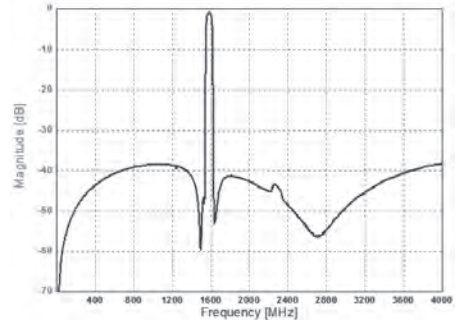
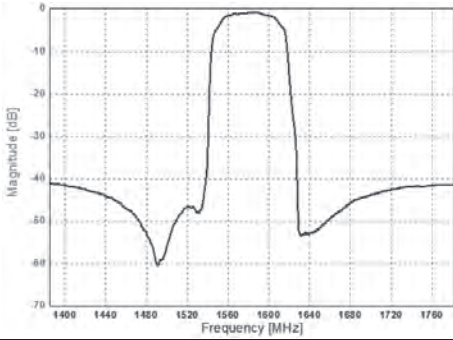
■ TYPICAL ELECTRICAL CHARACTERISTICS

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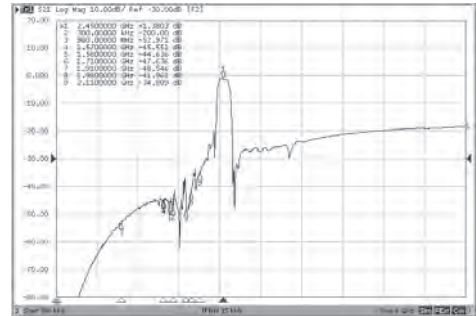


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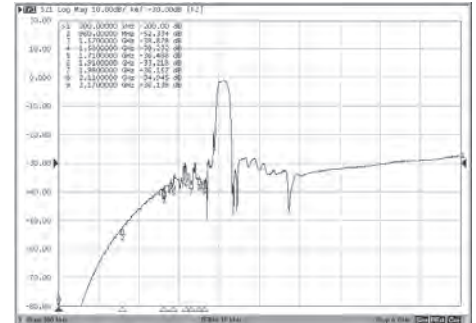
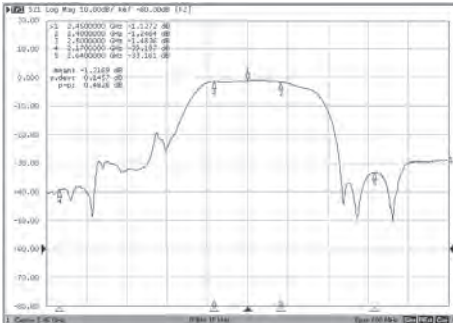
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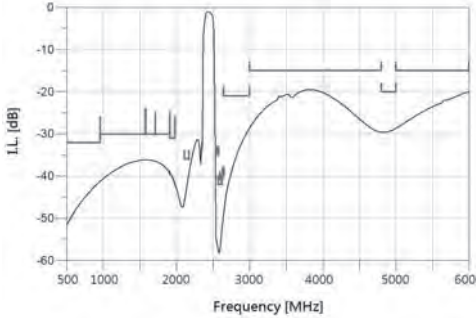
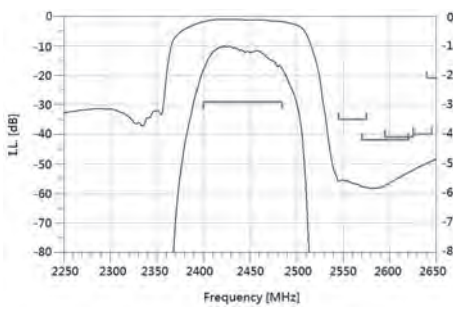
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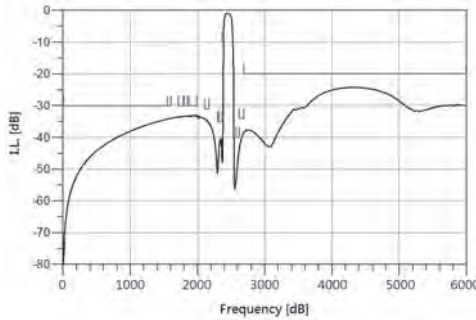
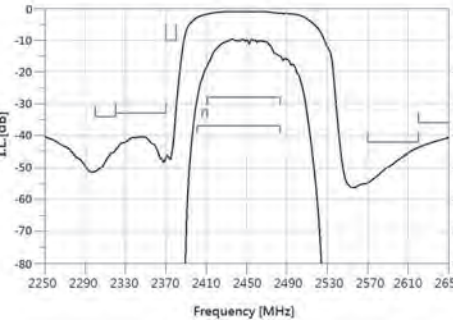
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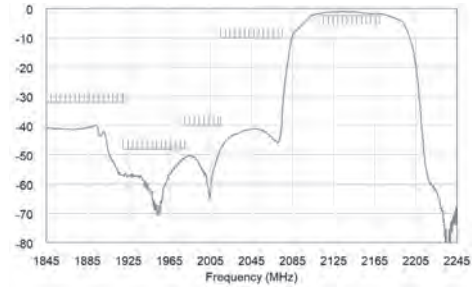
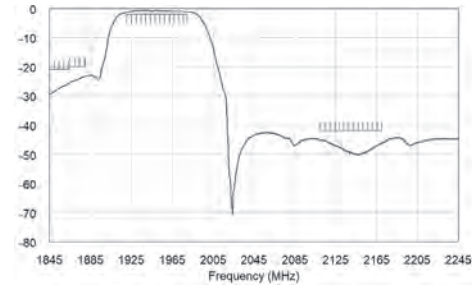


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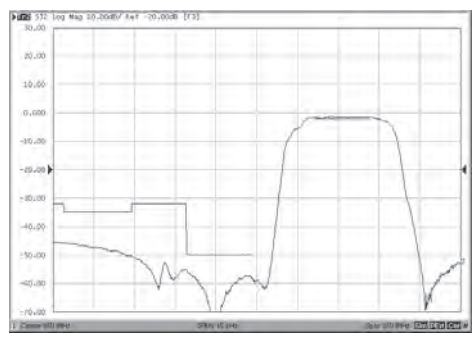


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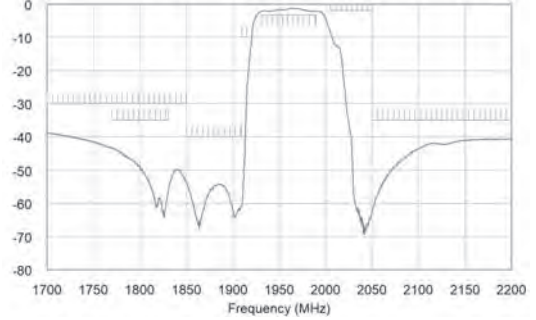
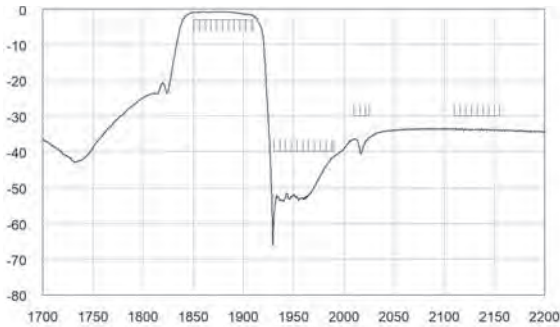
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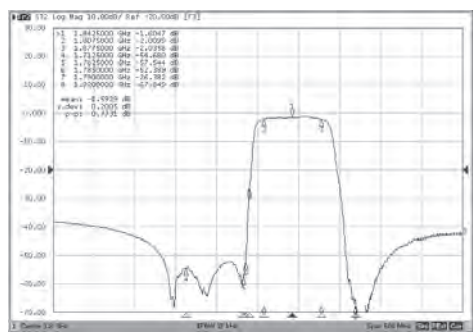
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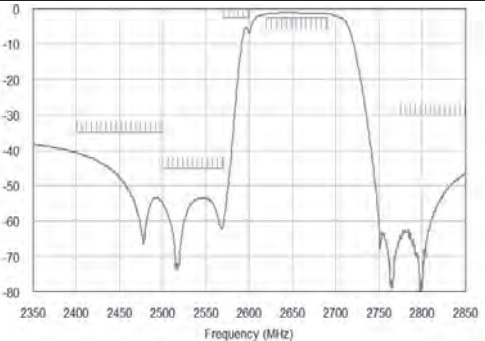
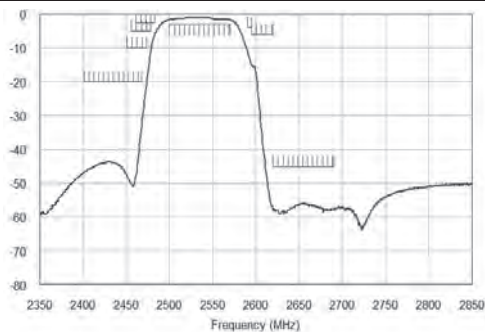
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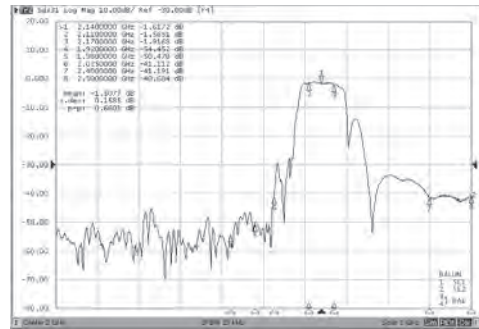
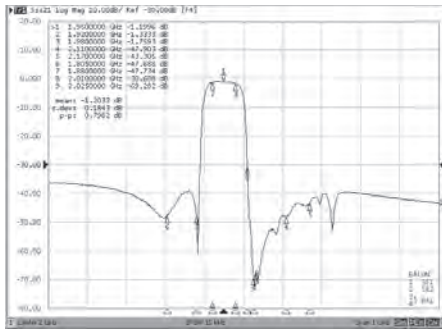


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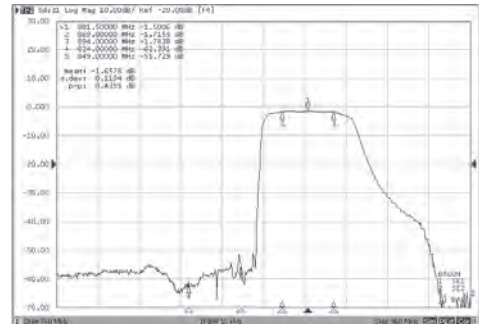
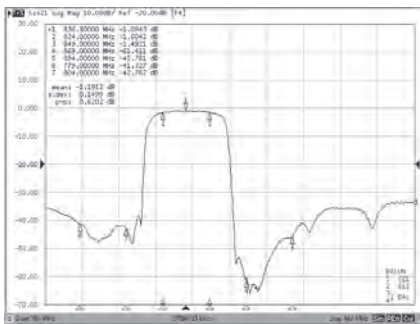


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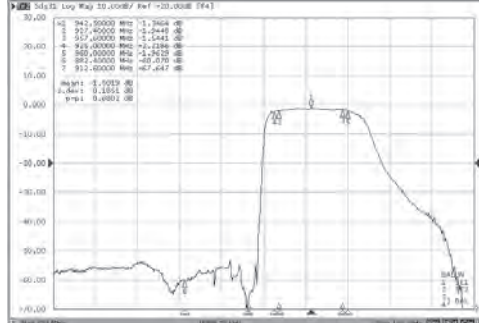
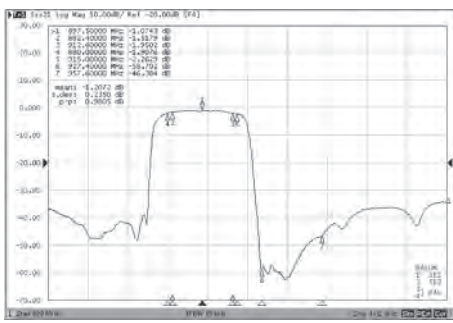
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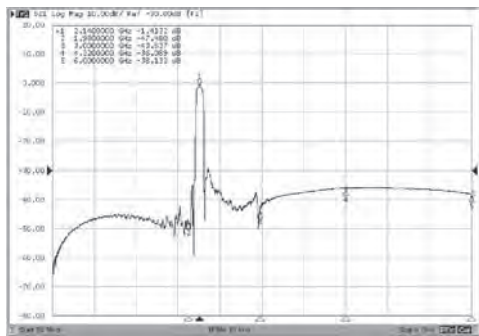
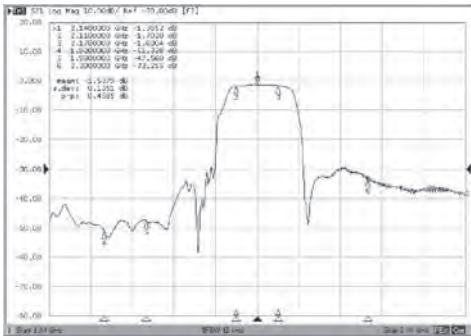
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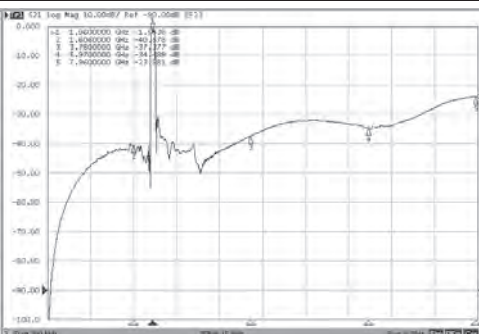
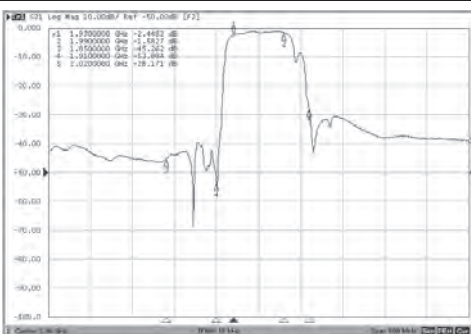
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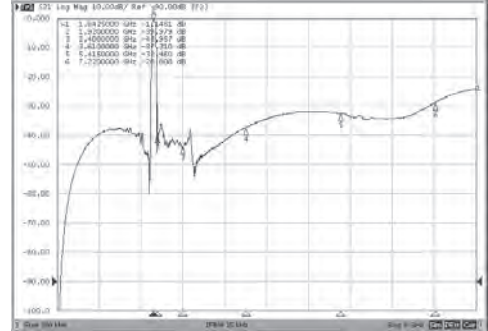
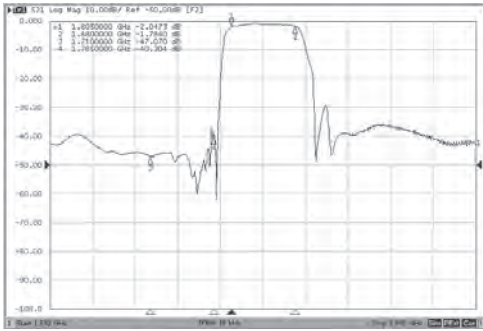


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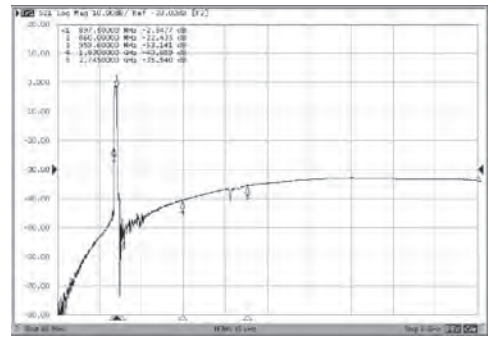
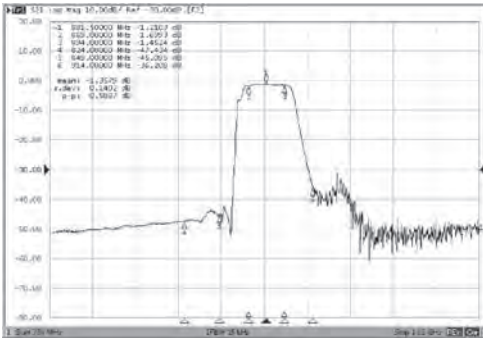


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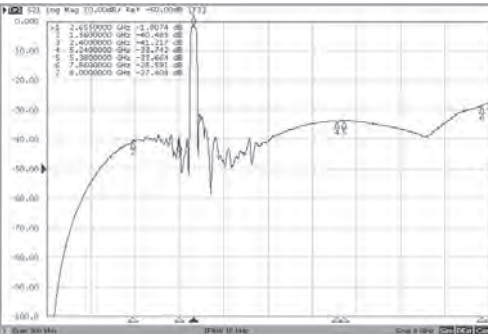
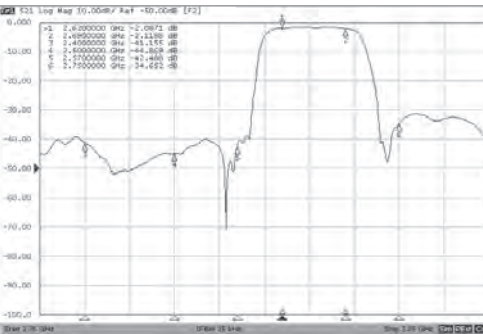
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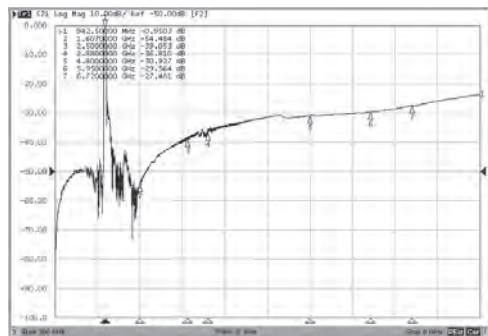
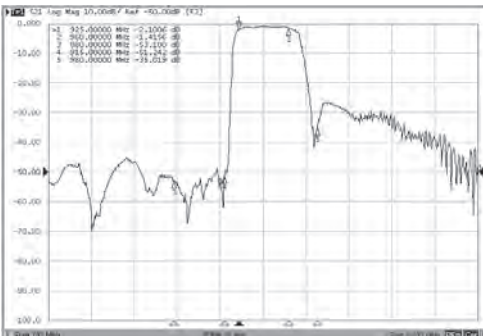
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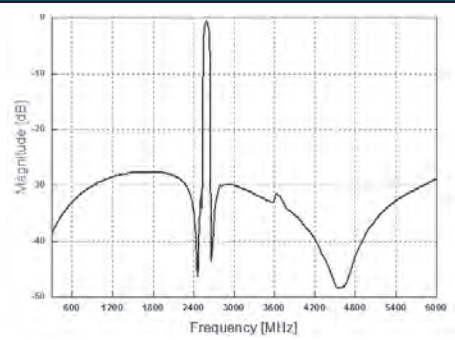
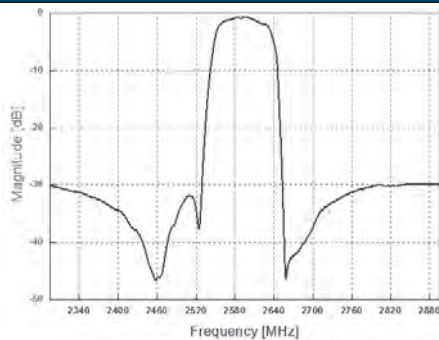
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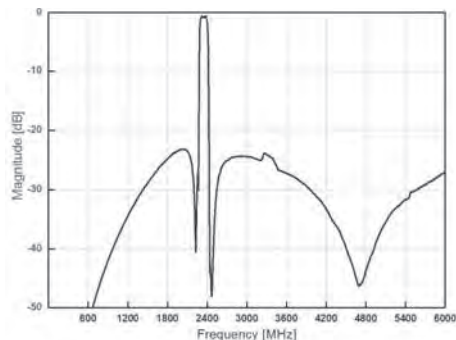
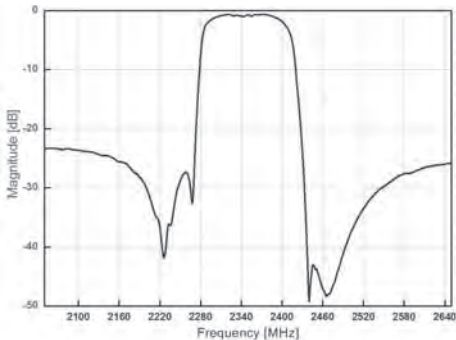


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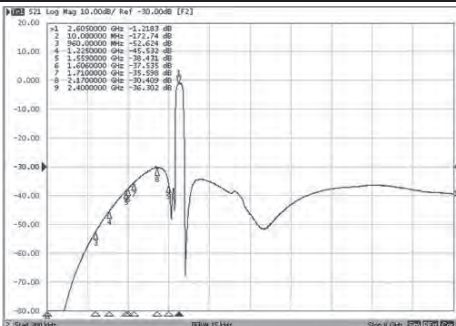
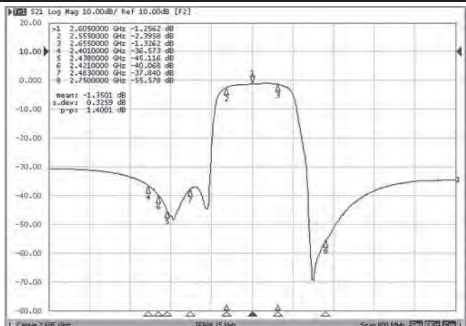


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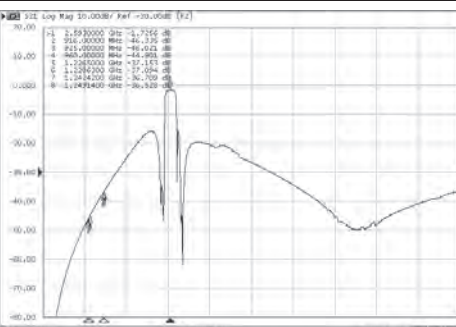
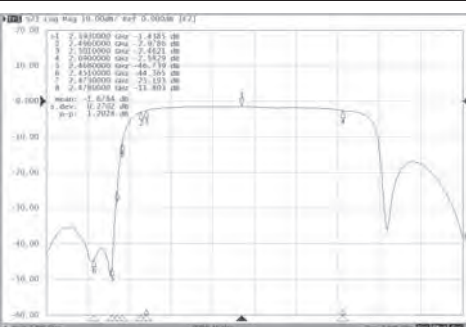
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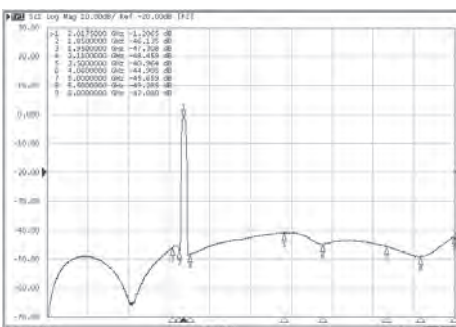
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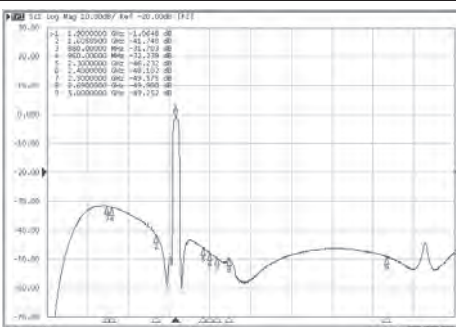
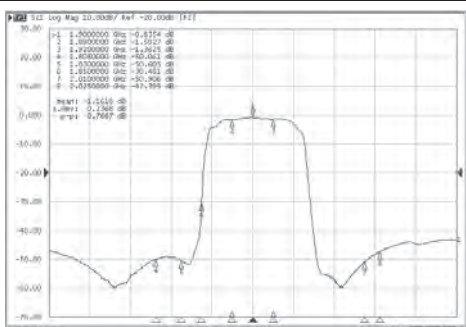
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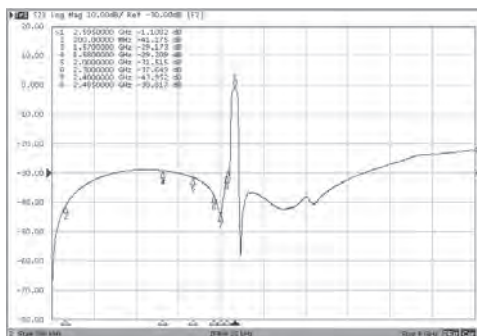
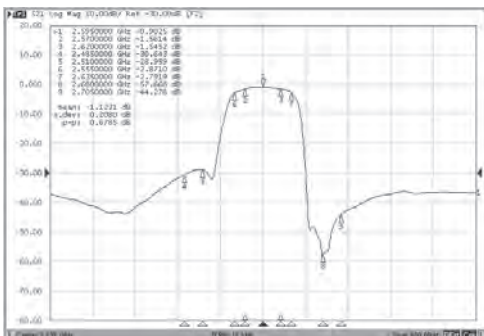


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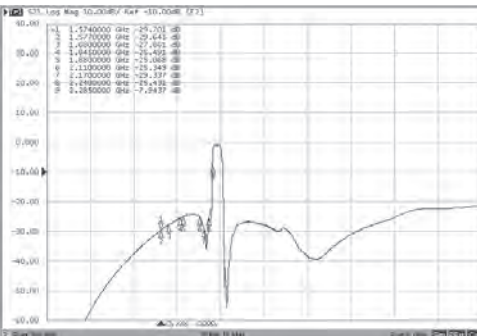
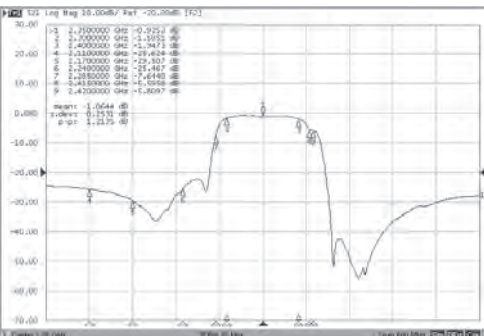


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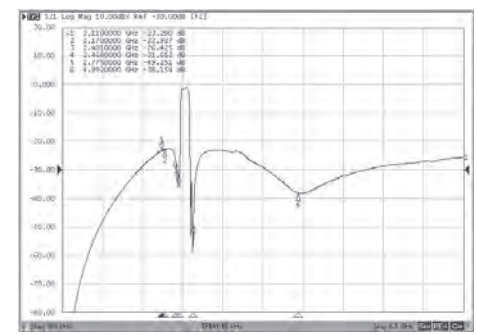
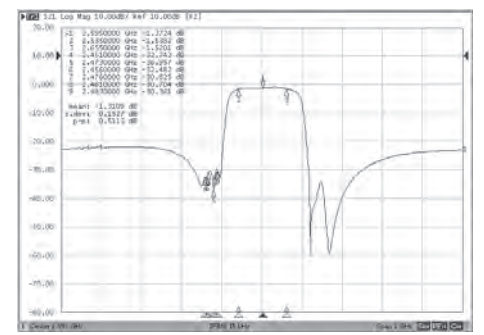
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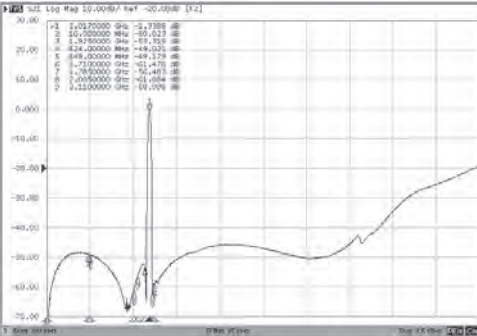
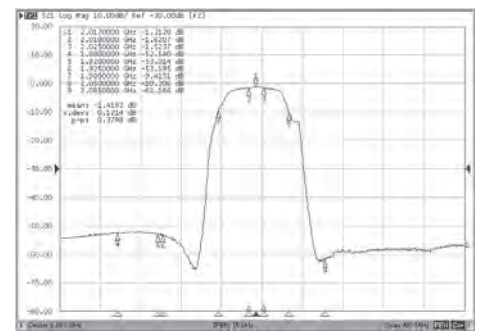
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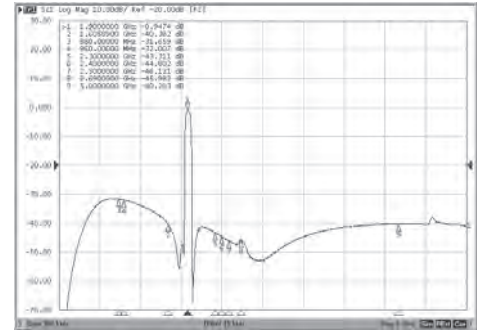
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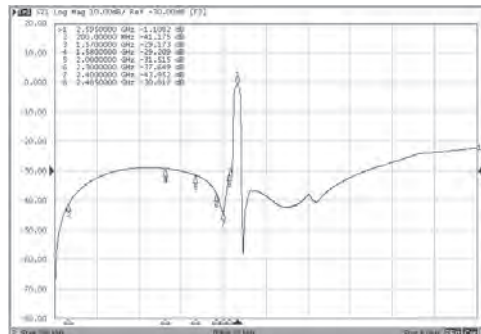


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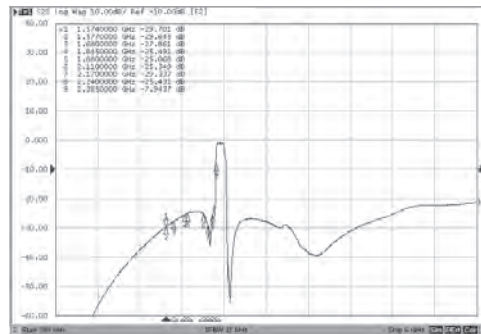
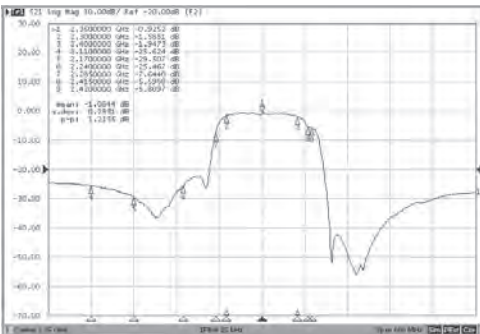


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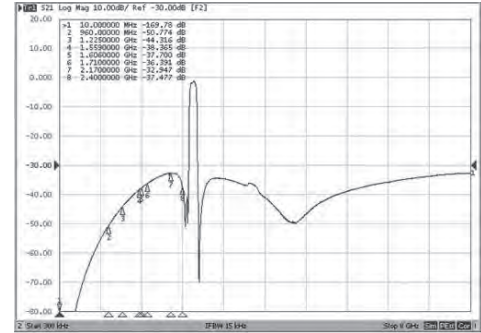
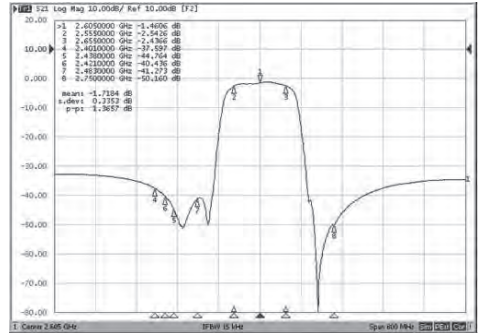
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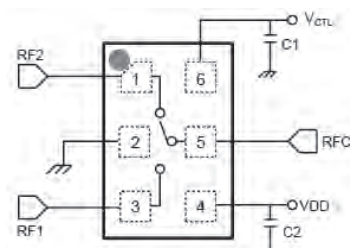
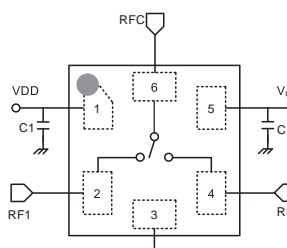
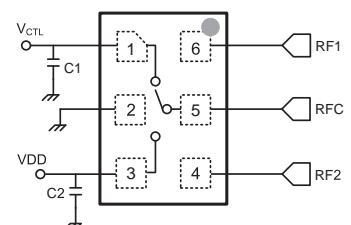
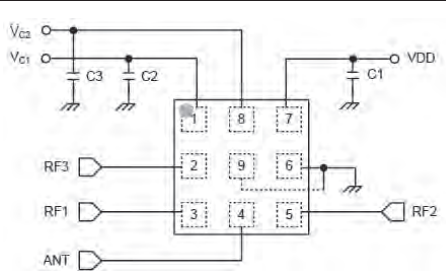
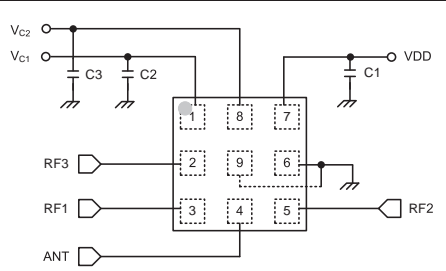
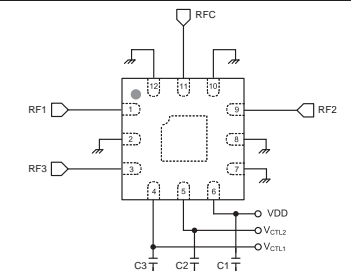
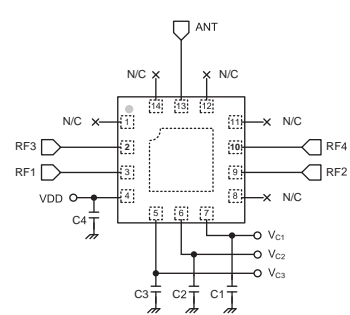
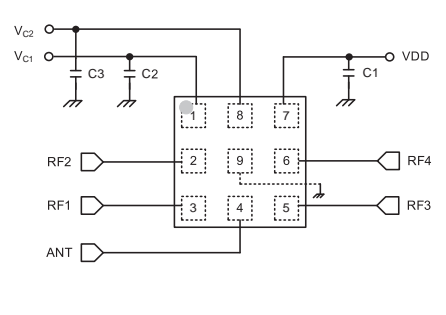
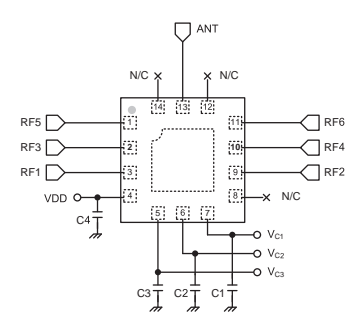
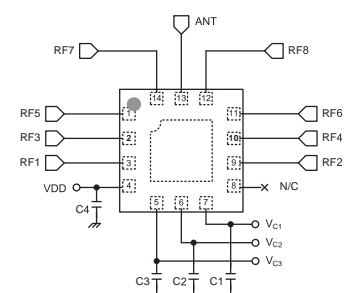
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- For more information, please contact with local sales representative
- All specifications are subject to change without notice

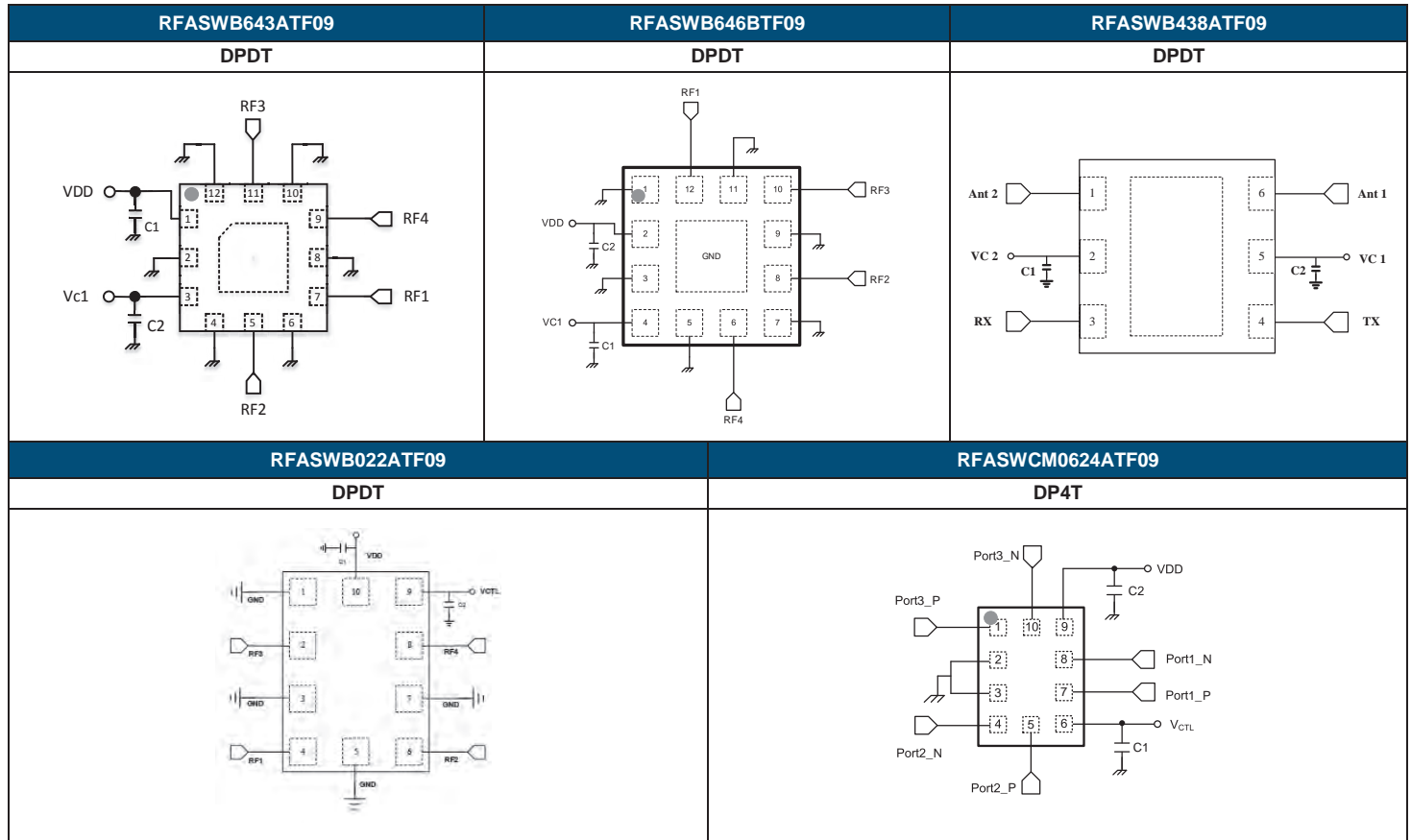
ANTENNA SWITCH

■ **Application Circuit (GPIO)**

<p style="text-align: center;">RFASWA630PTF06</p> <p style="text-align: center;">SPDT</p> 	<p style="text-align: center;">RFASWA697ATF09</p> <p style="text-align: center;">SPDT</p> 	<p style="text-align: center;">RFASWAM3489ATF09</p> <p style="text-align: center;">SPDT</p> 
<p style="text-align: center;">RFASWMT2628PTF09</p> <p style="text-align: center;">SP3T</p> 	<p style="text-align: center;">RFASWMT2628BTF09</p> <p style="text-align: center;">SP3T</p> 	<p style="text-align: center;">RFASWMH6373ATF09</p> <p style="text-align: center;">SP3T</p> 
<p style="text-align: center;">RFASWKH4414PTF06</p> <p style="text-align: center;">SP4T</p> 	<p style="text-align: center;">RFASWK626ATF09</p> <p style="text-align: center;">SP4T</p> 	<p style="text-align: center;">RFASWHH1416PTF06</p> <p style="text-align: center;">SP6T</p> 
<p style="text-align: center;">RFASWDH2418PTF06</p> <p style="text-align: center;">SP8T</p> 		

ANTENNA SWITCH

■ **Application Circuit (GPIO)**



■ **ELECTRICAL SPECIFICATION**

Part Number	Description	Frequency (GHz) Min.	Frequency (GHz) Max.	Insertion loss	Isolation	VSWR	Package (mm)
				(dB)	(dB)		
RFASWA630PTF06	SPDT	0.1	6	0.25~1.1dB	14~35	1.20	1.1 x 0.7
RFASWA697ATF09		0.4	6	0.35~1.00dB	15~32	1.50	1.0 x 1.0
RFASWAM3489ATF09		0.7	2.7	0.38~0.50dB	21~33	1.25	1.1 x 0.7
RFASWMT2628PTF09	SP3T	0.5	2.7	0.30~0.60dB	20~35	1.43	1.0 x 1.0
RFASWMT2628BTF09		0.8	2.7	0.30~0.70dB	14~26	1.50	1.0 x 1.0
RFASWMMH6373ATF09		0.5	6	0.32~0.80dB	15~32	1.40	2.0 x 2.0
RFASWKH4414PTF06	SP4T	0.1	2.7	0.45~0.65dB	24~38	1.22	2.0 x 2.0
RFASWK626ATF09		0.7	2.7	0.30~0.50dB	27~38	1.60	1.1 x 1.1
RFASWHH1416PTF06	SP6T	0.1	2.7	0.4~0.65dB	24~38	1.22	2.0 x 2.0
RFASWDH2418PTF06	SP8T	0.1	2.7	0.30~0.80dB	18~35	1.50	2.0 x 2.0
RFASWB643ATF09	DPDT	0.7	2.7	0.40~0.55dB	22~30	1.28	2.0 x 2.0
RFASWB646BTF09		0.7	3.8	0.40~0.70dB	25~33	1.20	1.83 x 1.83
RFASWB438ATF09		0.1	6	0.50~1.20dB	13~28	1.43	1.5 x 1.5
RFASWB022ATF09		0.6	6	0.40~1.05dB	16~33	1.30	1.1 x 1.5
RFASWCM0624ATF09	DP4T	0.824	0.96	0.25dB	28~38	1.50	1.1 x 1.5
		1.71	2.17	0.35dB	23~30	1.50	
		0.698	0.792	0.25dB	28~38	1.50	
		2.3	2.69	0.40dB	20~24	1.50	

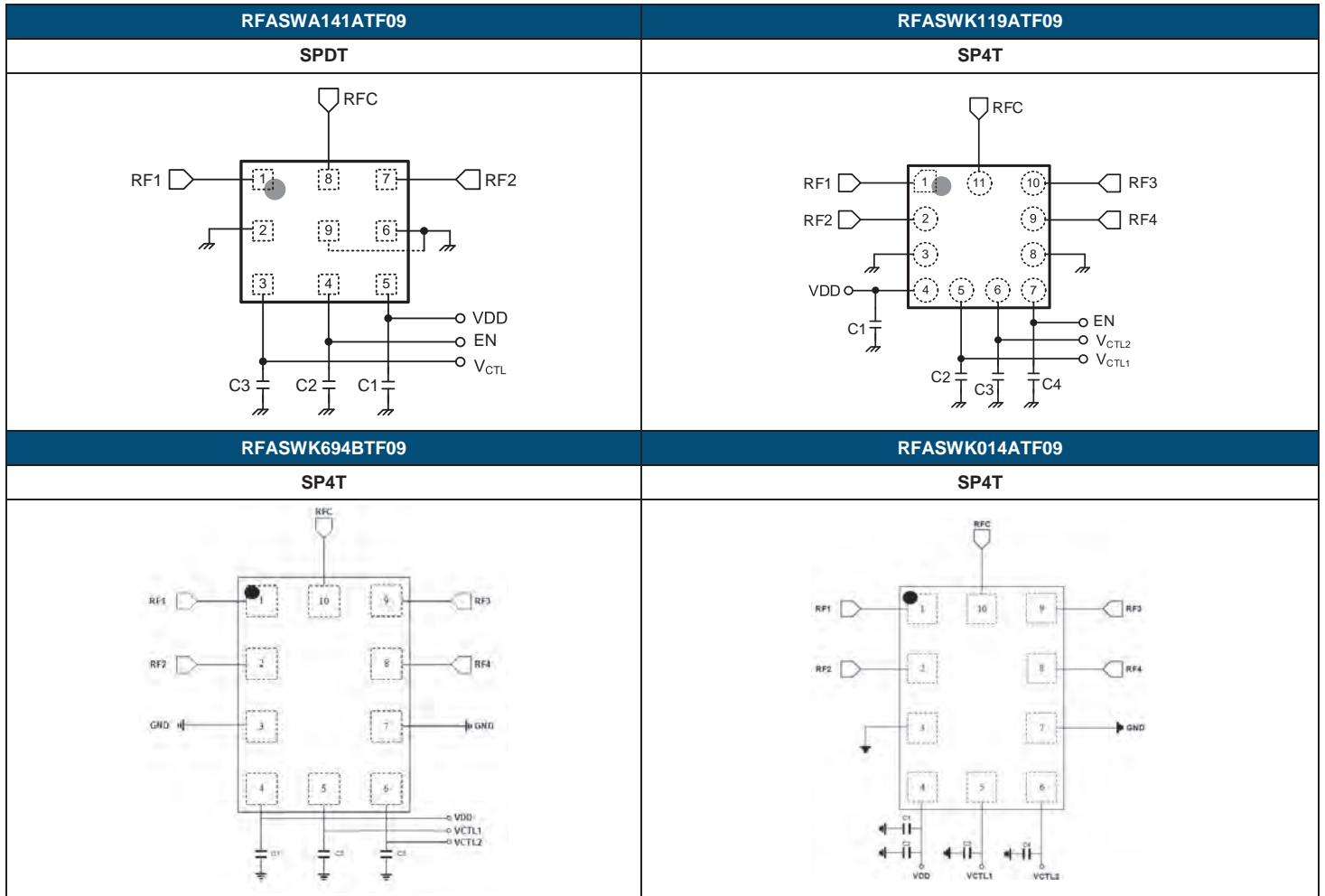
■ **Application Circuit (MIPI)**

RFASWH526BTF03 SP6T	RFASWH656FTF03 SP6T	RFASWD658FTF03 SP8T
RMASME494ATF03 SP10T	RFASWE660DTF03 SP10T	RFASWF662DTF03 SP12T
RMASMF496ATF03 SP12T	RMASMP491ATF03 SP14T	RMASMT1492ATF03 SP16T
RMASMU532ATF03 DP14T (SP8T+SP6T)	RMASMU890ATF03 DP14T (SP7T+SP7T)	RMASMS535ATF03 DP21T (SP12T+SP9T)

■ **ELECTRICAL SPECIFICATION**

Part Number	Description	Frequency (GHz) Min.	Frequency (GHz) Max.	Insertion loss (dB) TRXx ports	Isolation (TRXx to any off TRXx port) [non-adjacent ports]	Isolation (TRXx to any off TRXx port) [adjacent ports]	VSWR	Package (mm)
RFASWH526BTF03	SP6T	0.4	2.7	0.40-0.76dB(400-2690MHz)	20-30	17-26	2	2.0 x 2.0
RFASWH656FTF03		0.4	2.7	0.40-0.76dB(704-2690MHz)	20-30	17-26	2	2.0 x 2.0
RFASWD658FTF03	SP8T	0.4	2.7	0.40-0.76dB(704-2690MHz)	20-30	17-26	2	2.0 x 2.0
RMASME494ATF03	SP10T	0.4	2.7	0.60-0.85dB(824-2690MHz)	23-30	20-26	2	2.5 x 2.5
RFASWE660DTF03		0.7	2.7	0.45-0.75dB(700-2700MHz)	18-26	18-26	2	2.4 x 2.4
RFASWF662DTF03	SP12T	0.4	2.7	0.50-0.72dB(700-2690MHz)	20-30	16-23	2	2.5 x 2.5
RMASMF496ATF03		0.4	2.7	0.60-0.85dB(824-2690MHz)	23-30	20-26	2	2.5 x 2.5
RMASMP491ATF03	SP14T	0.4	2.7	0.70-1.15dB(700-2690MHz)	20-30	16-20	2	2.5 x 2.9
RMASMNT1492ATF03	SP16T	0.4	2.7	0.60-1.00dB(824-2690MHz)	20-30	16-20	2	2.5 x 3.3
RMASMU532ATF03	DP14T (SP8T+SP6T)	0.4	2.7	0.65-1.15dB(704-2690MHz)	17-23	14-21	1.5	2.8 x 2.8
RMASMU890ATF03	DP14T (SP7T+SP7T)	0.4	2.7	0.60-0.85dB(600-2690MHz)	18-25	15-23	1.5	3.2 x 2.8
RMASMS535ATF03	DP21T (SP12T+SP9T)	0.7	3.0	0.65-1.10dB(824-2690MHz)	15-23	14-21	2	3.6 x 2.8

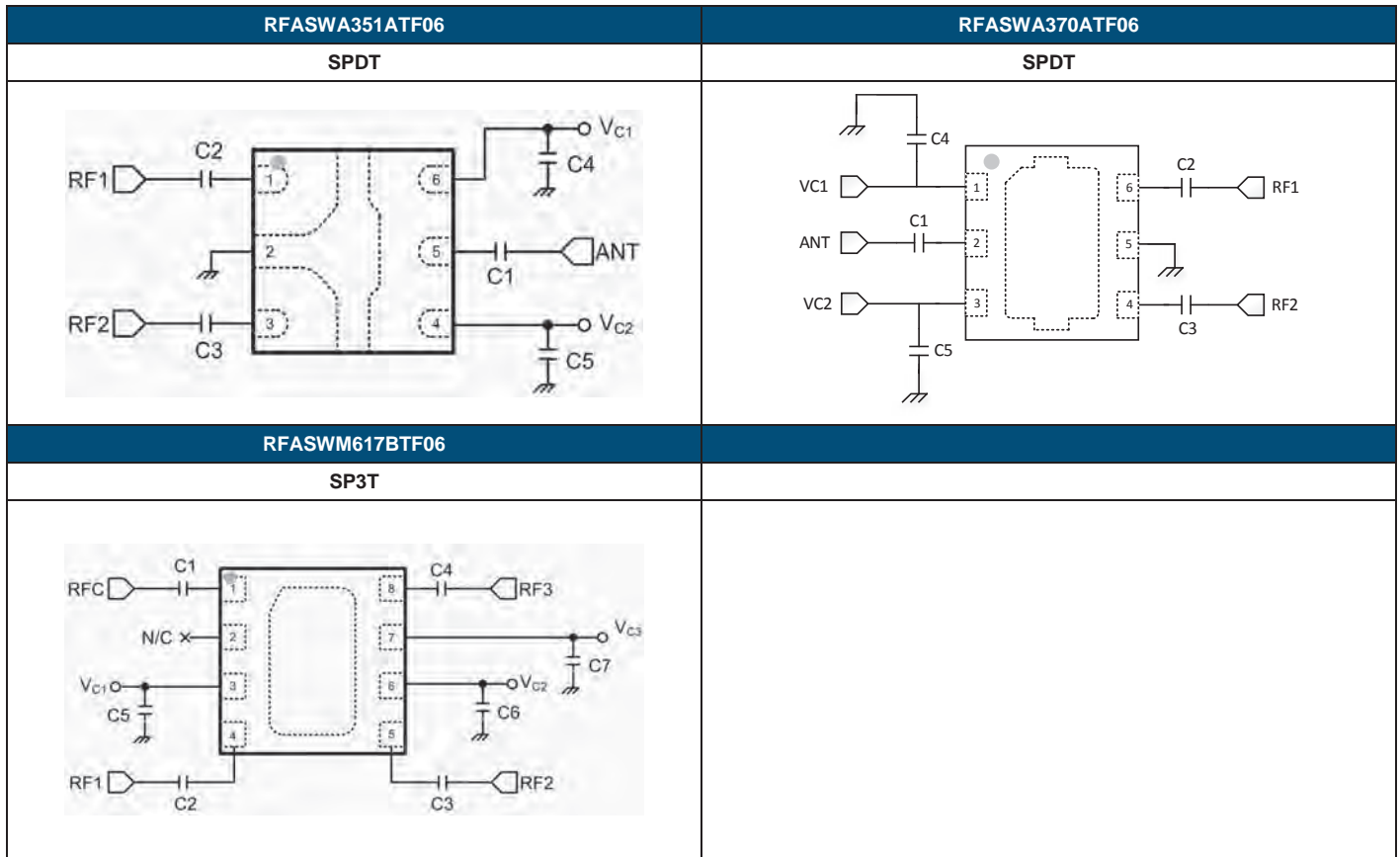
■ **Application Circuit (LTE Antenna Tuner-GPIO)**



■ **ELECTRICAL SPECIFICATION**

Part Number	Description	Frequency (GHz) Min.	Frequency (GHz) Max.	Insertion loss (dB)	Isolation	VSWR	Package (mm)
RFASWA141ATF09	SPDT	0.4	3.0	0.20~0.35dB(700~2700MHz)	11~21	1.22	1.67 x 1.47
RFASWK119ATF09	SP4T	0.4	3.0	0.40~0.75dB(1000~2700MHz)	14~24	1.78	1.6 x 1.6
RFASWK694BTF09	SP4T	0.5	2.7	0.30~0.67dB(615~2700MHz)	16~22	1.58	1.1 x 1.5
RFASWK014ATF09	SP4T	0.1	2.7	0.25~1.05 dB (700~2700MHz)	16~25	1.28	1.1 x 1.5

■ **Application Circuit (Network-GPIO)**



■ **ELECTRICAL SPECIFICATION**

Part Number	Description	Frequency (GHz) Min.	Frequency (GHz) Max.	Insertion loss (dB)	Isolation	VSWR	Package (mm)
RFASWA351ATF06	SPDT	0.5	6.0	0.35~0.70dB(500~6000MHz)	15~25	2	1.0 x 1.0
RFASWA370ATF06	SPDT	0.5	6.0	0.50~0.90dB(500~5850MHz)	23~28.5	1.67	1.5 x 1.5
RFASWM617BTF06	SP3T	0.5	6.0	0.35~0.65dB(500~6000MHz)	15~30	1.92	1.5 x 1.5

DIPOLE ANTENNA (N/SMA)

■ **ELECTRICAL SPECIFICATION**

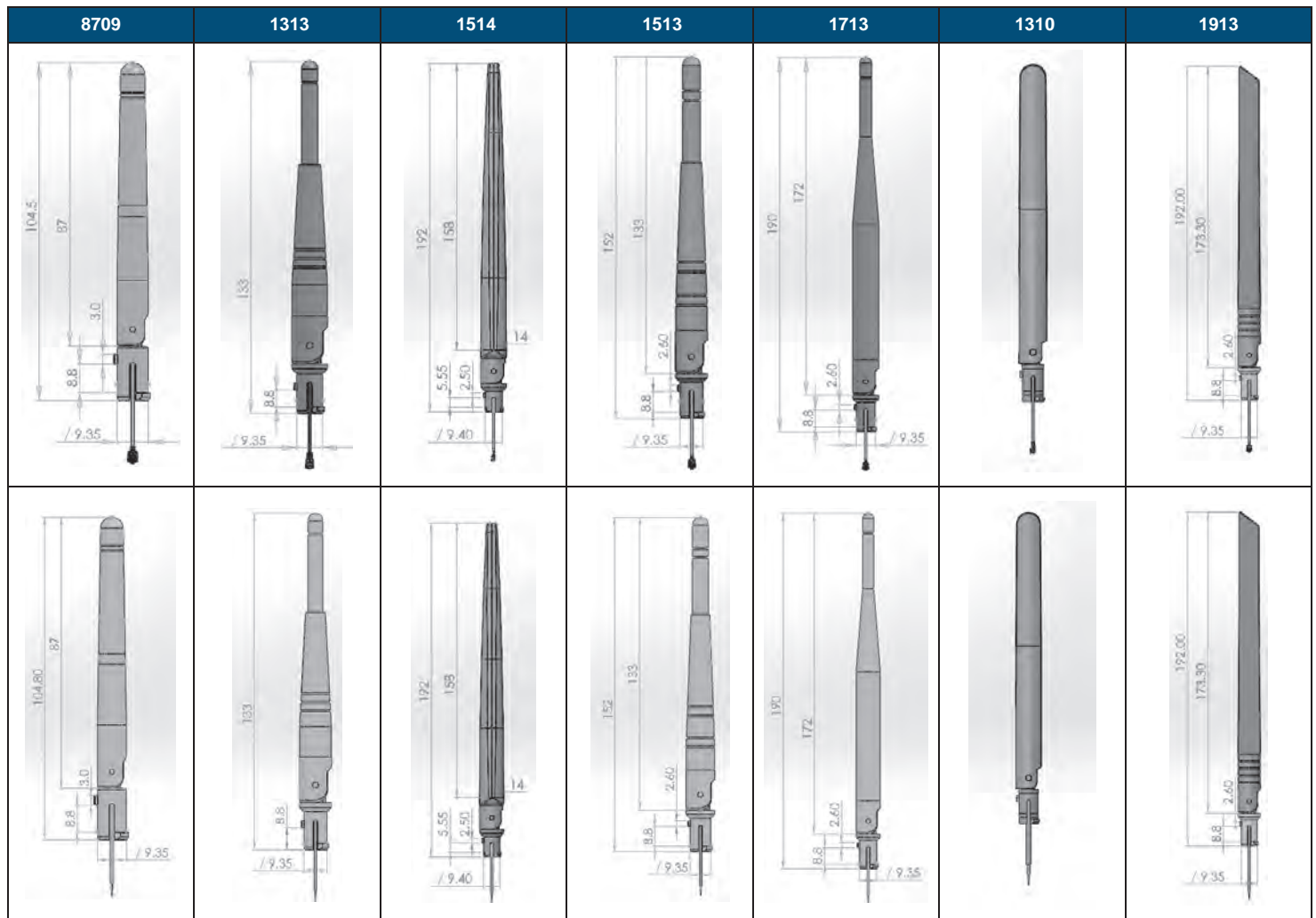
Series	Size(mm)		Working Frequency Range	Gain	VSWR	Return Loss
	L	Ø				
8709	87	9.95	2.4~2.5 GHz	2dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 2dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
1313	137.5	13	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 3dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
1513	157.5	13	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 3dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
1713	172.5	13	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 4dBi 5.15~5.85 GHz : 5dBi	<2	<-10dB
3913	392	12.5	2.4~2.5 GHz	9dBi	<2	<-10dB
1310	135.7	10	2.4~2.5 GHz	5dBi	<2	<-10dB
			5.x GHz	5dBi	<2	<-10dB
			2.4~2.5/5.x GHz	3dBi~4dBi	<2	<-10dB
			Lora	3dBi	<2.5	<-7dB
			LTE	3dBi	<3	<-6dB
1413	148.5	13	2.4~2.5 GHz	3dBi	<2	<-10dB
			5.x GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	3dBi	<2	<-10dB
			LTE	3dBi	<3	<-6dB
1615	169.9	13	LTE+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	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 4dBi 5.15~5.85 GHz : 5dBi	<2	<-10dB
2213	217.1	13	2.4~2.5/5.x GHz	2.4~2.5 GHz : 5dBi 5.15~5.85 GHz : 4dBi	<2	<-10dB
			2.4~2.5 GHz	6dBi	<2	<-10dB
			2.4~2.5/5.x GHz	7dBi	<2	<-10dB
			5.x GHz	7dBi	<2	<-10dB
			LTE	5dBi	<3	<-6dB
2220	220	20	2.4 GHz	5dBi	<2	<-10dB
			5.x GHz	5dBi	<2	<-10dB
			2.4~2.5 GHz	7dBi	<2	<-10dB
2520	25	20	2.4 GHz	5~7dBi	<2	<-10dB
			5.x GHz	7dBi	<2	<-10dB
			2.4~2.5 GHz (High Gain)	7dBi	<2	<-10dB
4358	43.1	58.45	2.4~2.5 GHz 4.9~7.2 GHz	3.5dBi(@2.4~2.5 GHz) 2.5dBi(@4.9~7.2 GHz)	<2	<-10dB

8709	1313	1513	1713	3913
				
1310	1413	2213	2220	2520
				
1913	1615	4358		
				

DIPOLE ANTENNA (Cable)

■ **ELECTRICAL SPECIFICATION**

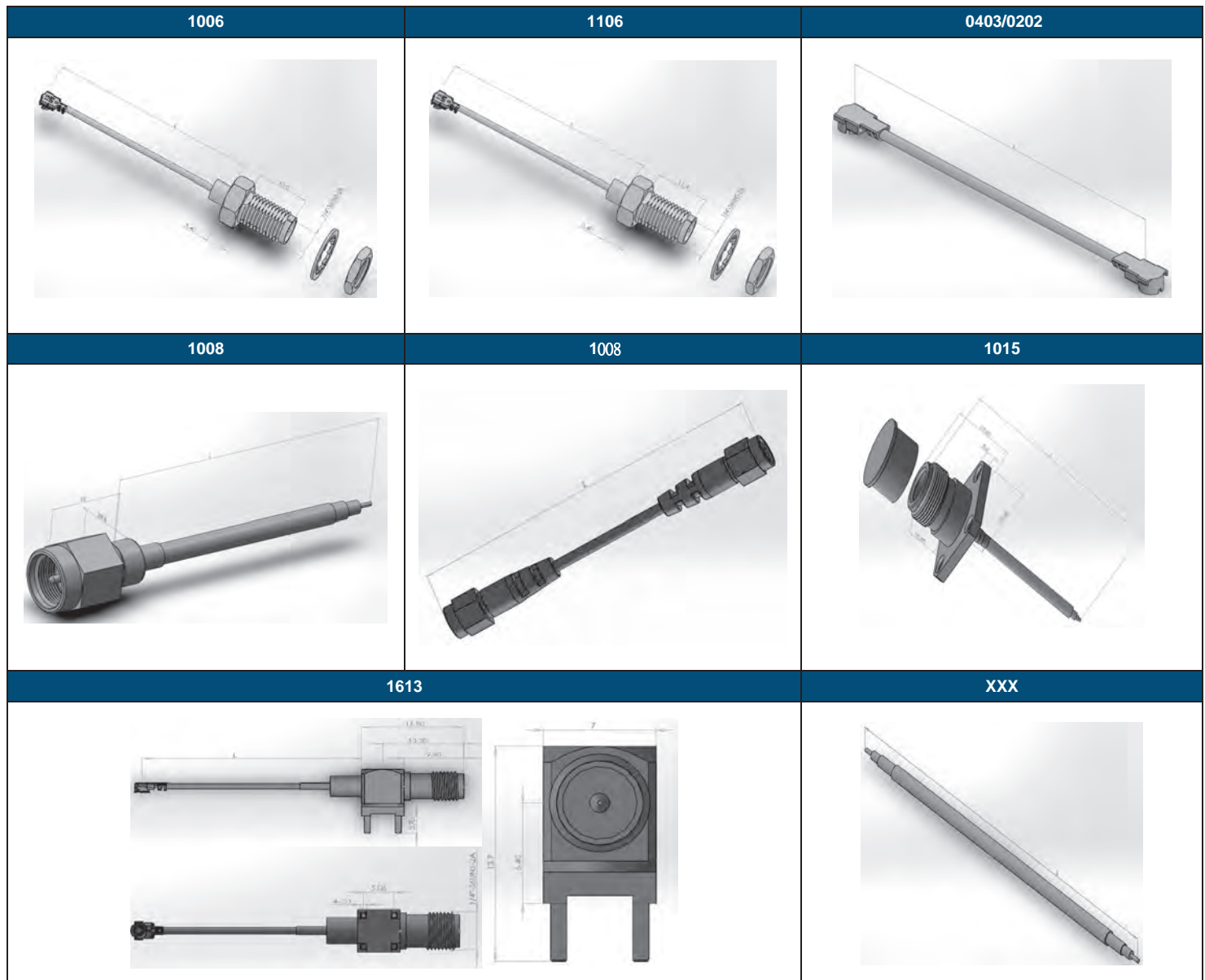
Series	Size(mm)		Working Frequency Range	Gain	VSWR	Return Loss
	L	Ø				
8709	87	9.35	2.4~2.5 GHz	2dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 2dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
1313	133	9.35	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 3dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
1513	152	9.35	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 3dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
1514	158	14	2.4~2.5/5.x GHz	2.4~2.5 GHz : 5dBi 5.15~5.85 GHz : 7dBi	<2	<-10dB
1713	172	9.35	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 4dBi 5.15~5.85 GHz : 5dBi	<2	<-10dB
1310	135.7	10	2.4~2.5 GHz	5dBi	<2	<-10dB
			5.x GHz	5dBi	<2	<-10dB
			2.4~2.5/5.x GHz	3dBi~4dBi	<2	<-10dB
			LTE	3dBi	<3	<-6dB
1913	192	9.35	2.4~2.5 GHz	5dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 4dBi 5.15~5.85 GHz : 5dBi	<2	<-10dB



Cable Assembly

■ ELECTRICAL SPECIFICATION

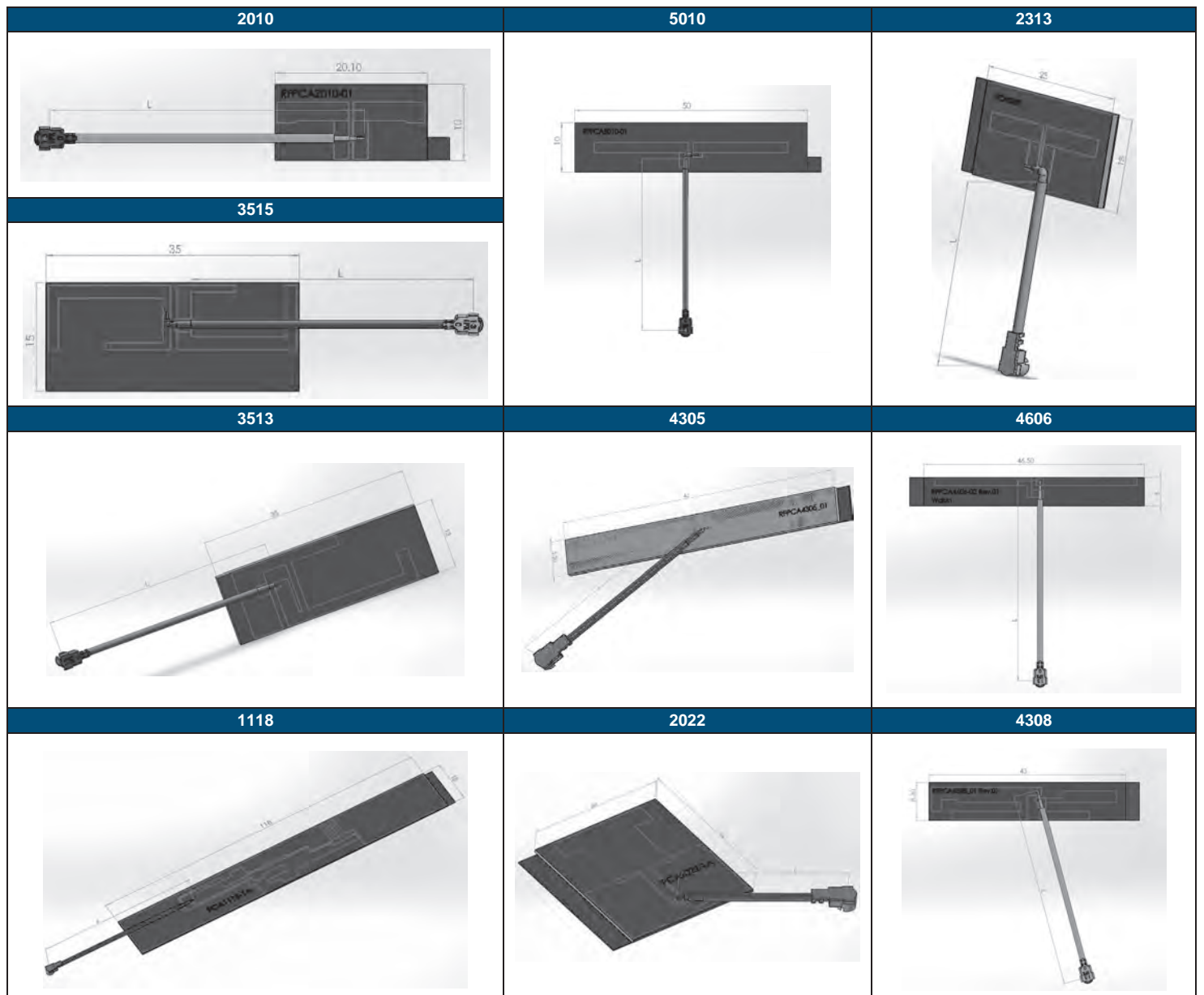
Series	Connector 1	Connector 2	Wire Diameter	Color	L	Working Frequency Range	VSWR
1006	Straight Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
1106	Straight Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
1613	R/A Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
0403	IPEX	IPEX(or Strip & Tin)	Ø0.81/Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
0202	IPEX III	IPEX(or Strip & Tin)	Ø0.81	Option	Option	DC ~ 6 GHz	2.0
xxxx	Strip & Tin	Strip & Tin	Ø0.81/Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
1015	N Jack	MMCX(or Strip & Tin)	RG316	Option	Option	DC ~ 6 GHz	2.0
1008	Straight Reverse SMA Plug	IPEX(or Strip & Tin)	RG405	Option	Option	DC ~ 6 GHz	2.0



PCB Antenna

■ ELECTRICAL SPECIFICATION

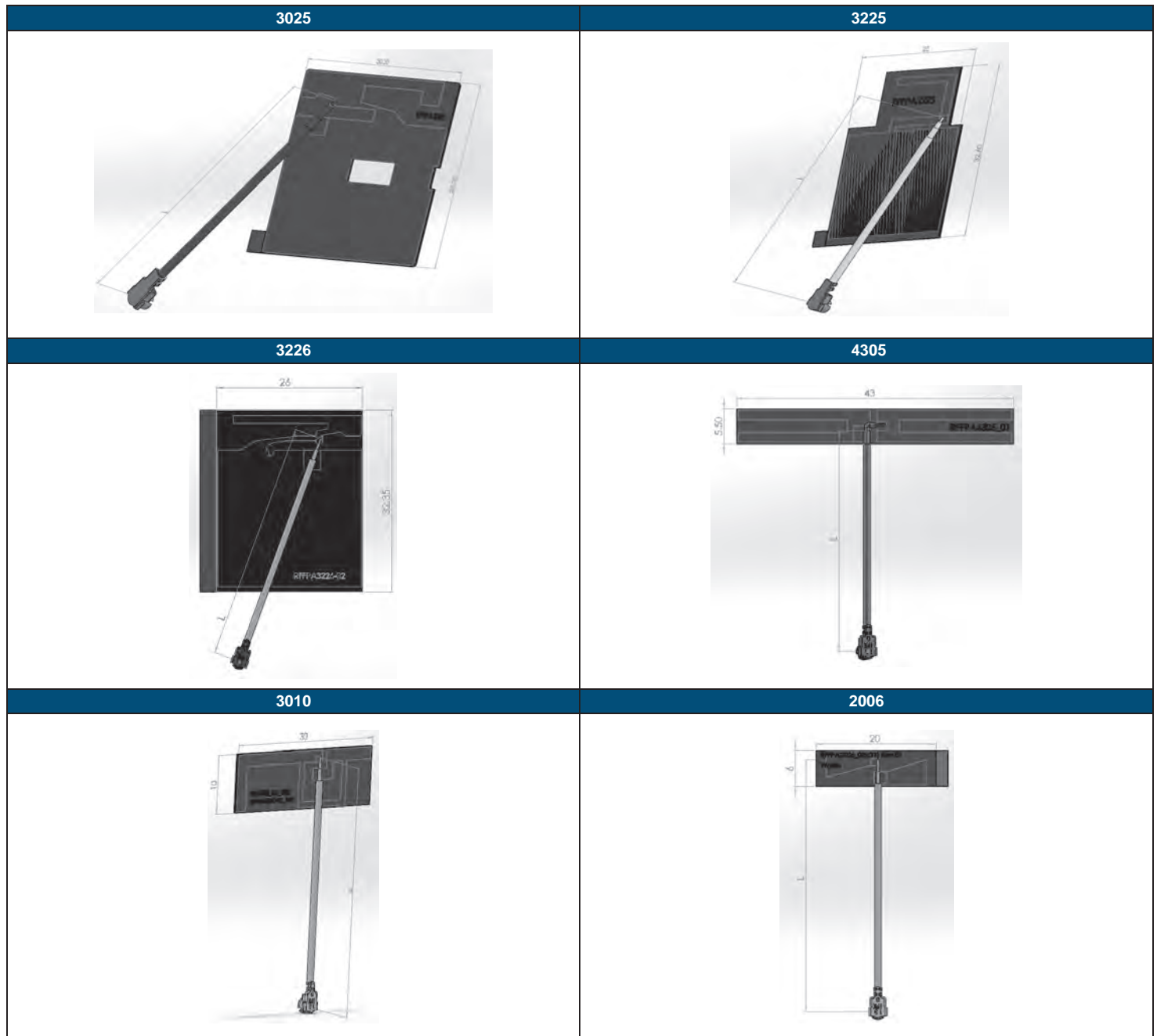
Series	PCB Size(mm)		Cable Length (mm) L	Working Frequency Range	Gain	VSWR	Return Loss
	L	w					
1118	118	18	Option	LTE+Sub-6G+5G	3.32 dBi(@ 698 ~960 MHz) 6.04 dBi(@1710 ~ 2690 MHz) 5.36 dBi(@ 3300 ~3800 MHz) 4.39 dBi(@5150 ~5850 MHz)	<2.0(@ 698~960 MHz) <3.0(@1710~ 2690 / 3300 ~3800 / 5150~5850 MHz)	<-10.0 dB (@698~960 / 1710~2690 MHz) <-6.0 dB (@3300~3800 / 5150~5850 MHz)
2022	20	22	Option	LTE+Sub-6G+5G	5.54 dBi	<2	<-10dB
2313	23	13	Option	5 GHz	3dBi	<2	<-10dB
4305	43	5	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
2010	20.1	10	Option	5 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.x GHz	2.4~2.5 GHz : 2dBi 5.x 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.x GHz	2.4~2.5 GHz : 2dBi 5.x GHz : 3dBi	<2	<-10dB



FPA Antenna

■ ELECTRICAL SPECIFICATION

Series	Size(mm)		Cable Length(mm) L	Working 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.x 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.x GHz	2dBi	<2	<-10dB

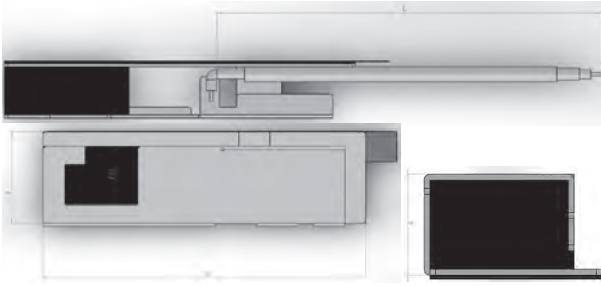


Metal Antenna

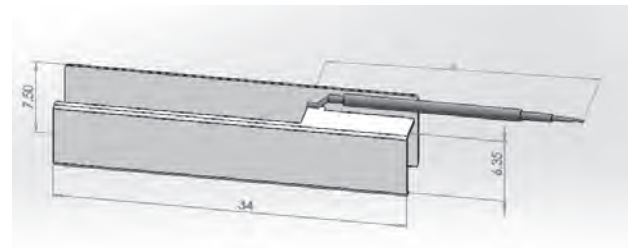
■ **ELECTRICAL SPECIFICATION**

Series	Size(mm)		Cable Length(mm) L	Working Frequency Range	Gain	VSWR	Return Loss
	L	w					
3109	31	9	Option	2.4~2.5/5.x GHz	2.4~2.5 GHz : 2 dBi 5.x 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.x GHz	2.4~2.5 GHz : 5 dBi 5.x 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.x GHz	2.4~2.5 GHz : 2.66dBi 5.x GHz : 3.68dBi	<2	<-10dB
2911	29.6	11.3	None	2.4~2.5/5.x GHz	2.4~2.5 GHz : 2.14dBi 5.x GHz : 2.68dBi	<2	<-10dB

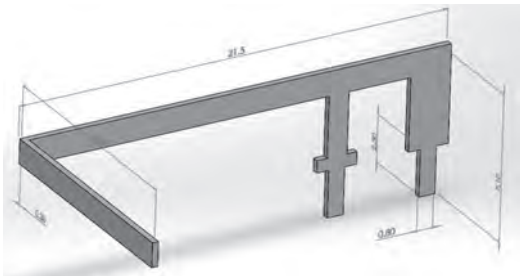
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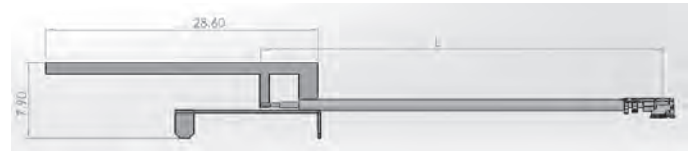
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2107



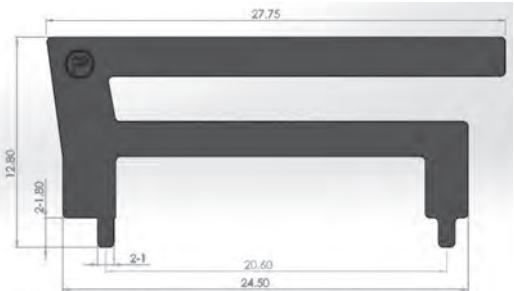
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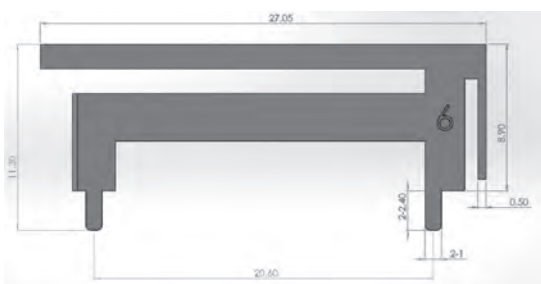
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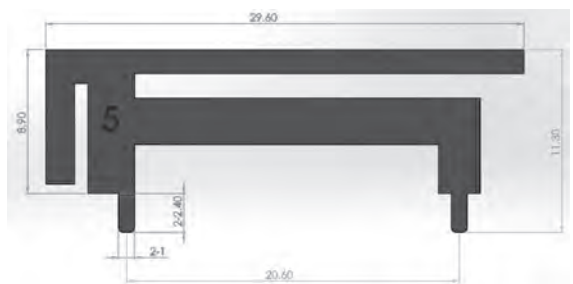
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2811



2911

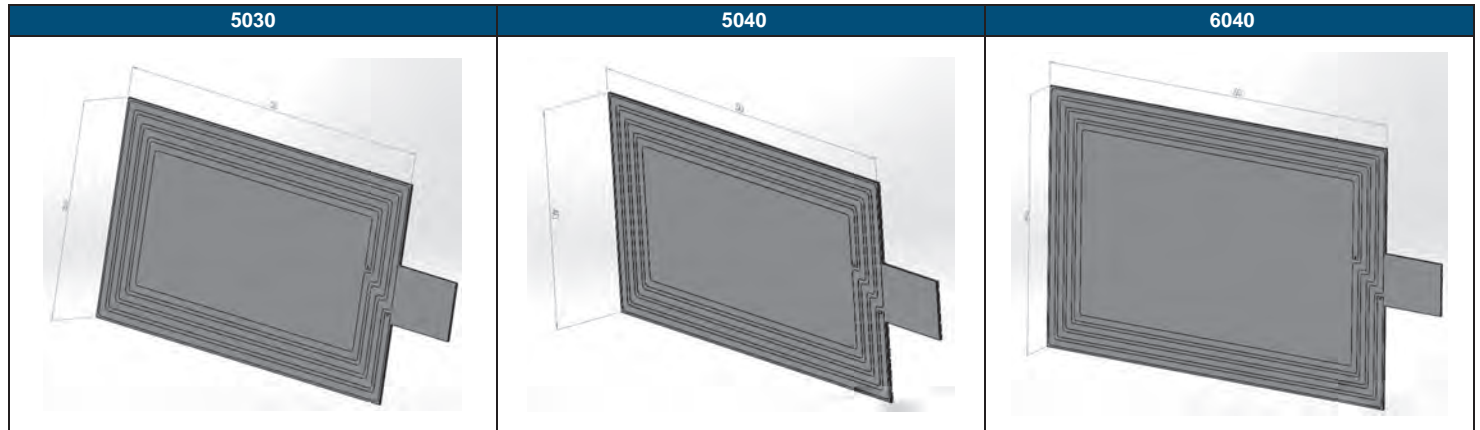


NFC Antenna (NFC/WPC/WNC)

■ ELECTRICAL SPECIFICATION

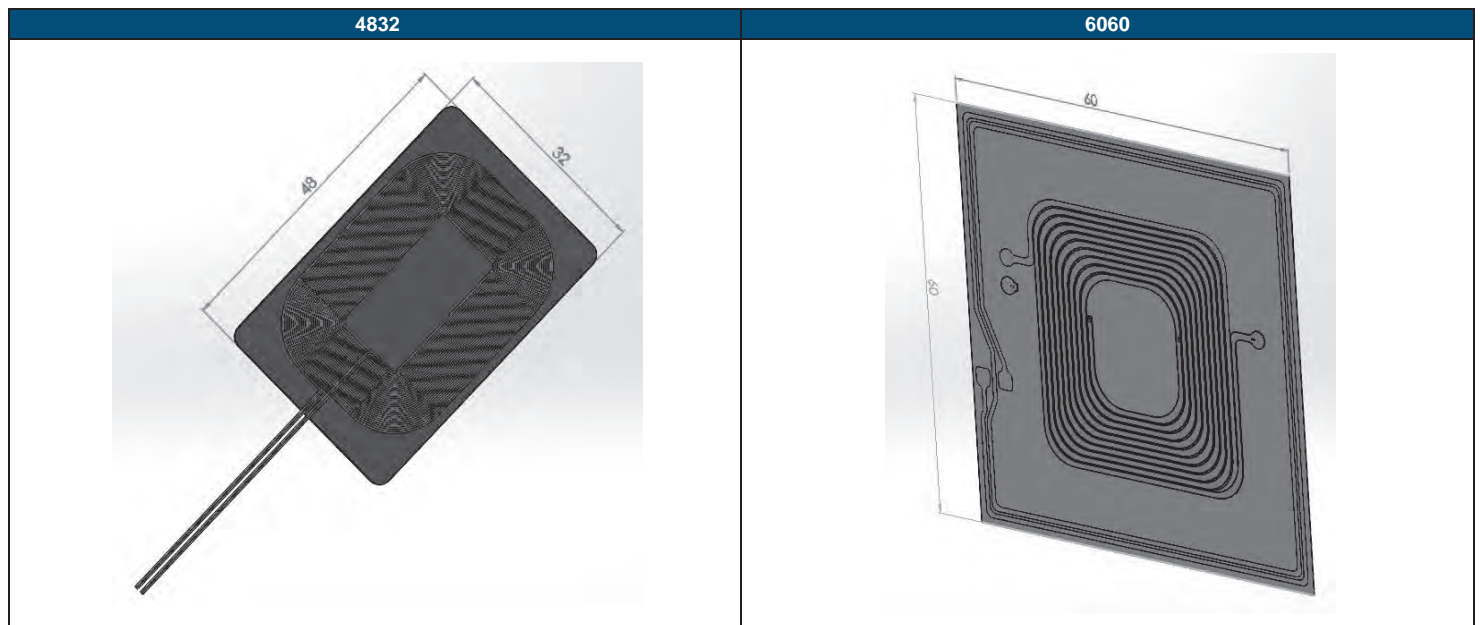
NFC

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

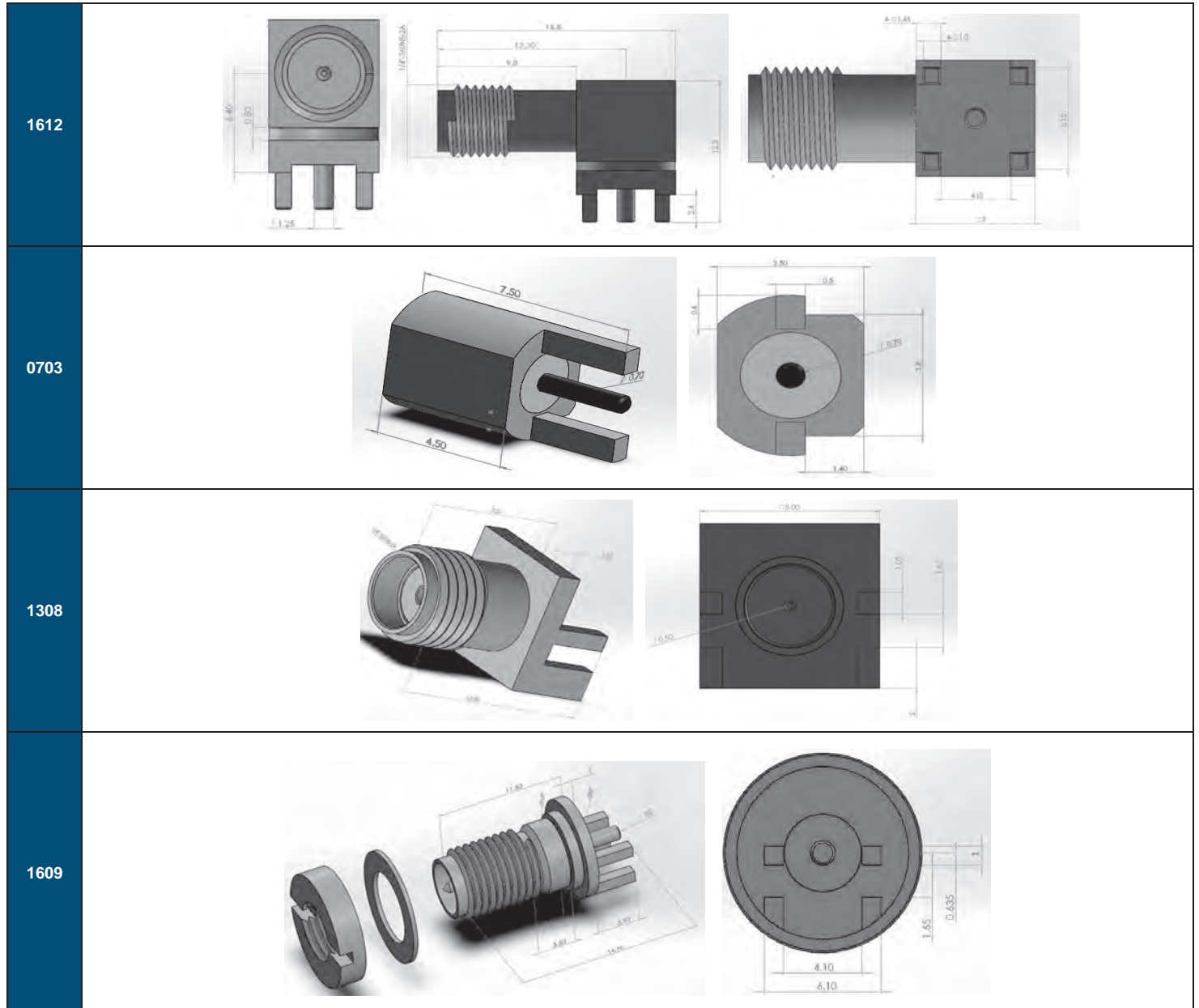
TYPE	Series	Size(mm)		Ls		Rs		Q	
		L	w	NFC	WPC	NFC	WPC	NFC	WPC
WPC	4832	48	32	1.35±0.1μH		0.3±0.15Ω		28.3±2.5(1MHz)	
WNC	6060	60	60	NFC	2.11±0.1μH	NFC	0.572±0.15Ω	NFC	37.2±2.5(1MHz)
				WPC	18.69±0.1μH	WPC	0.837±0.15Ω	WPC	14.03±2.5(1MHz)



Connector

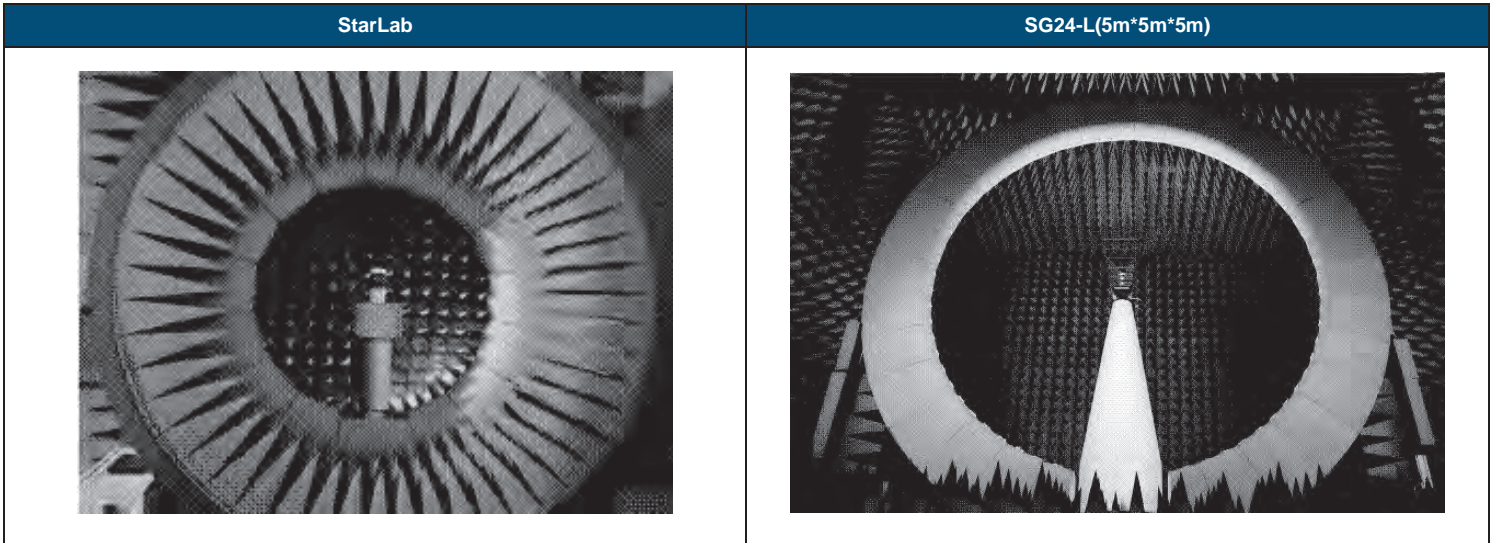
■ ELECTRICAL SPECIFICATION

Series	Size(mm)		Working Frequency Range	VSWR
	L	w		
1612	16.8	12.3	DC ~ 6 GHz	2.0
0703	7.5	3.3	DC ~ 6 GHz	2.0
1308	13.3	8	DC ~ 6 GHz	2.0
1609	16.5	9	DC ~ 6 GHz	2.0

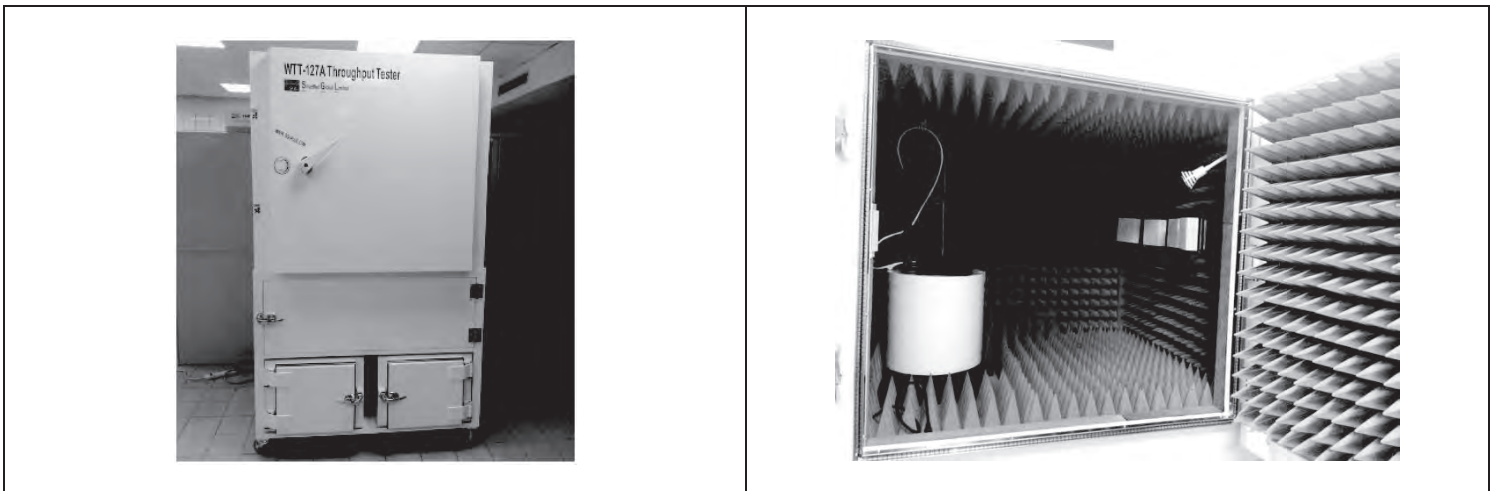


Measurement Equipment

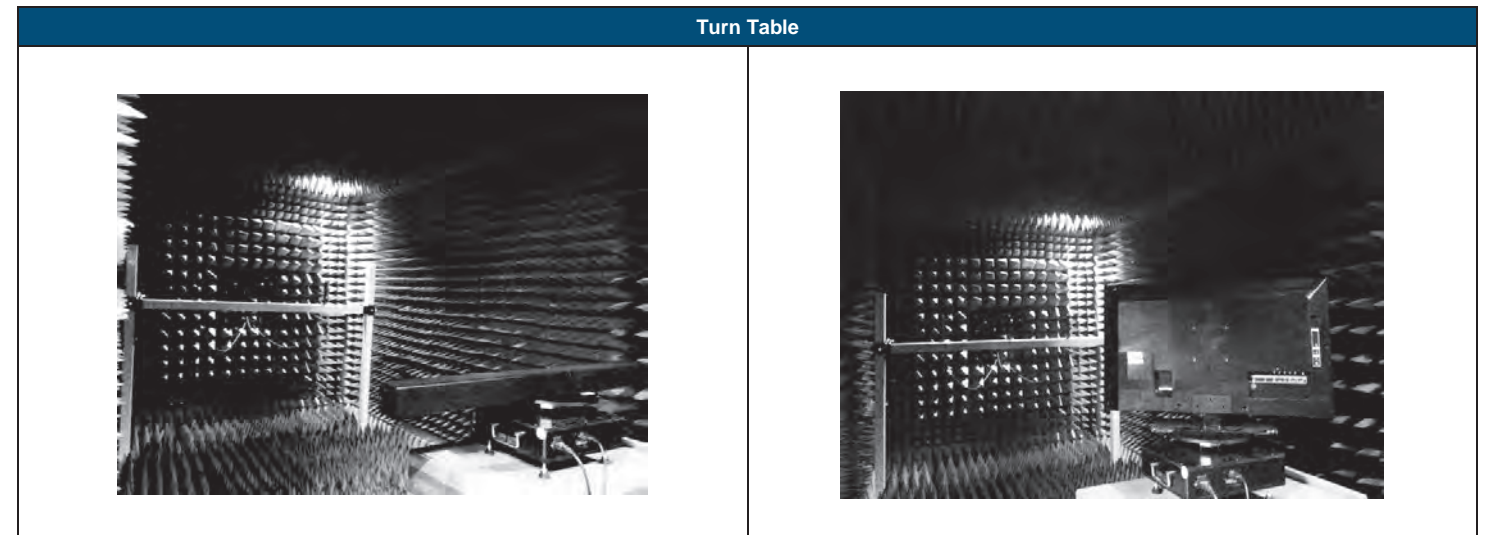
- Antenna Passive Measurement Efficiency / 3D Pattern @400MHz ~6GHz
- Active Measurement TRP & TIS Measurement for GSM/WCDMA/TD-CDMA/TDD-LTE/FDD-LTE



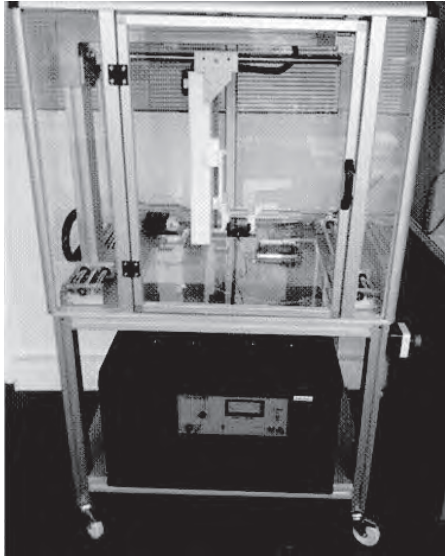
2D Antenna Lab (Wireless Throughput Test)



2D Antenna Lab (Smart TV Wireless Throughput Test)



FIME EMVCo/ISO10373-6 / NFC Forum



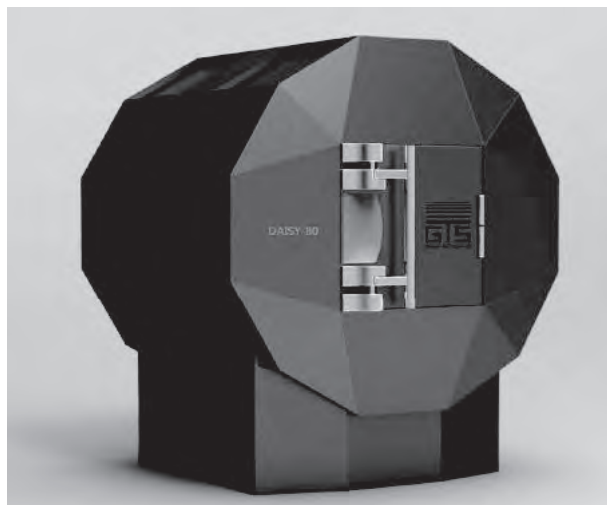
Comprion (NFC Forum)



Suzhou Smart TV Antenna Chamber



Shenzhen RayZone 1800



Ruled area for writing notes or content.

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