PSA 華科事業群
PASSIVE SYSTEM ALLIANCE

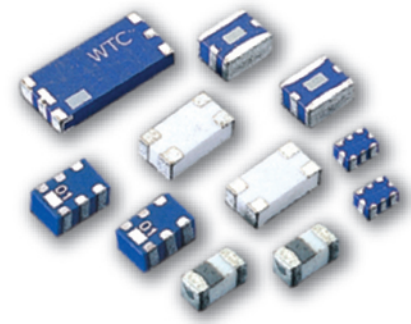
Walsin Technology Corporation

WALSIN
WALSIN ALWAYS AROUND YOU

RF Devices and Customer made Antenna

Product catalog

www.passivecomponent.com



PSA 華科事業群
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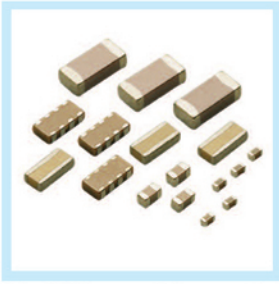
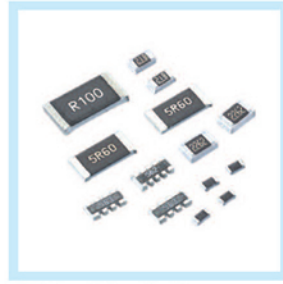
Product Portfolio



Multilayer Ceramic Capacitors (MLCC)

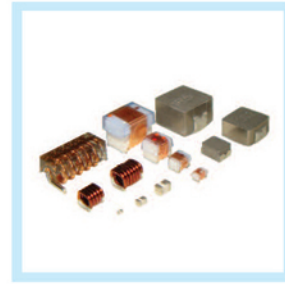


Chip-Resistor

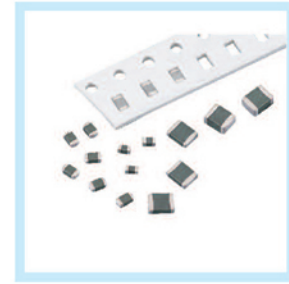
Disc Capacitors

RF Device and High Frequency Inductors

Antenna



Inductors



Varistors and SMD-Varistors

IEC-63 Nominal Resistance / Capacitance

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

E6: $\sqrt[6]{10} \fallingdotseq 1.46$ E12: $\sqrt[12]{10} \fallingdotseq 1.21$
E1 series resistance: 1Ω, 10Ω, 100Ω, 1000Ω, 10000Ω, 100000Ω

ORDERING CODE

■ CHIP ANTENNA

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

■ HIGH FREQUENCY MULTILAYER BAND PASS FILTER

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

■ HIGH FREQUENCY MULTILAYER BALANCED FILTER

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

■ HIGH FREQUENCY MULTILAYER LOW PASS FILTER

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

■ HIGH FREQUENCY MULTILAYER HIGH PASS FILTER

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

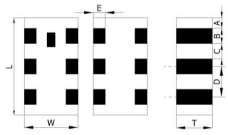
■ BALUN TRANSFORMERS

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

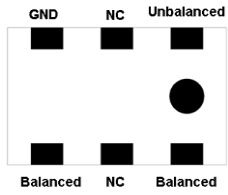
BALUN TRANSFORMERS

■ STRUCTURE AND PIN ASSOCIATED

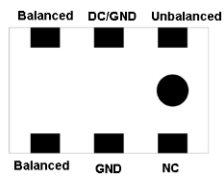
STRUCTURE A



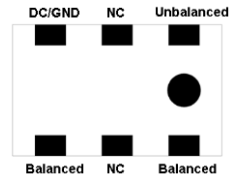
STRUCTURE A-1



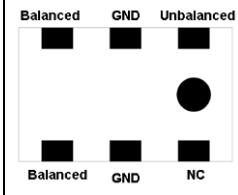
STRUCTURE A-2



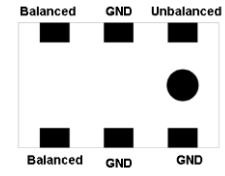
STRUCTURE A-3



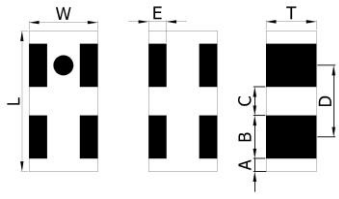
STRUCTURE A-4



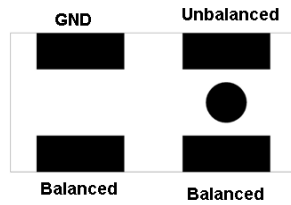
STRUCTURE A-5



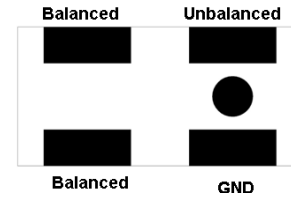
STRUCTURE B



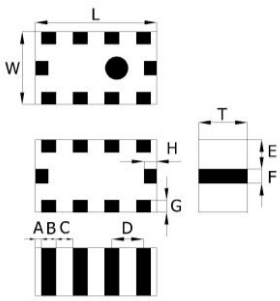
STRUCTURE B-1



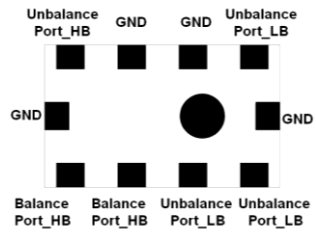
STRUCTURE B-2



STRUCTURE C



STRUCTURE C-1



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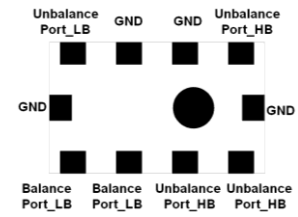
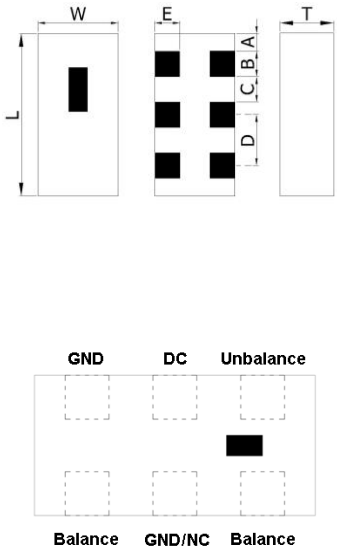
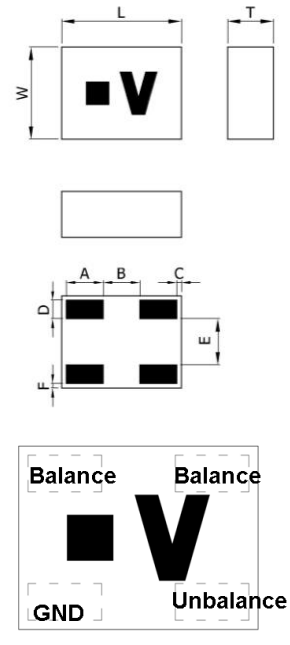


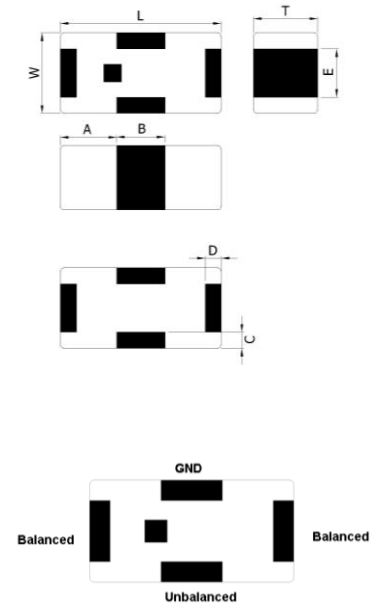
STRUCTURE D



STRUCTURE E



STRUCTURE F



■ STRUCTURE AND DIMENSION

Unit: mm

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

■ ELECTRICAL SPECIFICATION

ISM Band 2.4GHz APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB)Min.	Insertion Loss (dB)	Amplitude Difference (dB)Max.	Phase Difference	Size(mm)	Structure
		Unbalance	Balance						
RFBLN1005040A3T	2400~2500	50	Conjugate match to AR6003 chipset	10	1.4	2.0	180± 10	1.00x0.50x0.40	B-1
RFBLN1005040A6T	2400~2500	50	50	10	0.8	2.0	180± 10	1.00x0.50x0.40	B-2
RFBLN1608050AAT	2400~2500	50	Conjugate match to AR6003 chipset	10	1.2	2.0	180± 10	1.60x0.80x0.50	D
RFBLN1608060AM1T59	2400~2500	50	200	10	1.2	2.0	180± 10	1.60x0.80x0.65	A-3
RFBLN1608050AM8T62	2400~2500	50	50	10	1.2	2.0	180± 10	1.60x0.80x0.50	A-2
RFBLN1608050AM0T63	2400~2500	50	50	10	1.0	1.0	180± 10	1.60x0.80x0.55	A-2
RFBLN1608050AM6T30	2400~2500	50	35	10	1.0	1.0	180± 10	1.60x0.80x0.55	A-2
RFBLN1608060AC6T40	2400~2500	50	Conjugate match to TI CC26XX Chipset	10	1.6(25℃) 1.8(-40~+85℃)	2.3	180± 18	1.60x0.80x0.60	A-5
RGBLN1608070A1T	2400~2500	50	100	10	1.5	2.0	180± 15	1.60x0.85x0.70	A-1
RFBLN1608070A3T	2400~2500	50	100	10	1.0	2.0	180± 10	1.60x0.85x0.70	A-1
RFBLN1608070A4T	2400~2500	50	100	10	1.0	2.0	180± 10	1.60x0.80x0.70	A-1
RGBLN1608070A5T	2400~2500	50	100	10	1.2	2.0	180± 10	1.60x0.80x0.70	A-2
RGBLN2012080A5T	2400~2500	50	50	12	1.0	1.0	180± 10	2.00x1.25x0.85	A-2
RFBLN2012080A7T	2400~2500	50	100	10	1.0	2.0	180± 10	2.00x1.25x0.80	A-2
RGBLN2012090A0T	2400~2500	50	50	10	1.2	2.0	180± 10	2.00x1.25x0.95	A-2
RFBLN2012090A1T	2400~2500	50	100	10	1.0	2.0	180± 10	2.00x1.25x0.95	A-2

ISM Band 2.4GHz APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)	Amplitude Difference (dB)Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN1005040K1T	4900~5950	50	50	10	1.2	2.0	180± 10	1.00x0.50x0.40	B-2
RFBLN2012090K0T	4900~5900	50	50	10	1.1	2.0	180± 10	2.00x1.25x0.95	A-4
RFBLN2012090K1T	4900~5900	50	100	10	1.2	2.0	180± 10	2.00x1.25x0.95	A-4

LTE Band APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)	Amplitude Difference (dB)Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN16080G9D2T	699~960	50	100	10	1.05(25℃) 1.15(-40~+85℃)	2.5	180± 15	1.60x0.80x0.70	A-4
RFBLN1005040YM1T69	703~803	50	100	10	0.80	2.0	180± 12	1.00x0.50x0.40	F

LTE Band APPLICATION

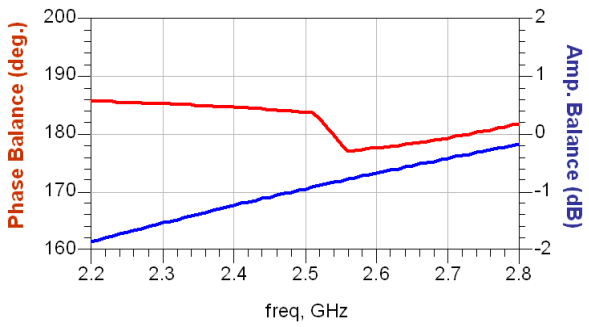
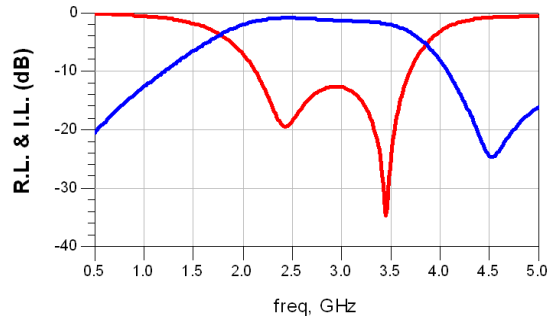
Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)	Amplitude Difference (dB)Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN0605040Y1T	717~821	50	100	15	0.55(25℃) 0.65(-40~+85℃)	2.0	180± 10	0.65x0.50x0.40	E
RFBLN0605040YM9T16	729~821	50	100	10	0.55(25℃) 0.65(-40~+85℃)	2.0	180± 10	0.65x0.50x0.40	E
RFBLN0605040Y09FNH	729~869	50	100	15	0.55(25℃) 0.65(-40~+85℃)	2.5	180± 10	0.65x0.50x0.40	E
RFBLN06050G9D0T	729~960	50	100	15	0.85(25℃) 0.95(-40~+85℃)	4.8	180± 10	0.65x0.50x0.40	E
RFBLN16080G9D3T	824~894	50	50	10	1.2	1.0	180± 10	1.60x0.80x0.60	A-2
RFBLN20120G9D0T	824~894	50	100	10	1.2	1.0	180± 10	2.00x1.25x0.90	A-2
RFBLN1608070F48Q1C	673~2700	50	100	10	1.7(25℃) 2.0(-40~+85℃)	1.5	180± 17	1.60x0.80x0.70	A-4
RFBLN2012090E0T	1500~3000	50	100	10	1.0	2.0	180± 10	2.00x1.25x0.90	A-4
RFBLN20121G8D1T	1700~2000	50	100	10	1.0	2.0	180± 10	2.00x1.25x0.95	A-2
RFBLN06051G8DM1T69	1805~1990	50	100	10	0.60(25℃) 0.65(-40~+85℃)	1.8	180± 10	0.65x0.50x0.40	E
RFBLN10051G9D1T	1805~1990	50	100	10	0.60(25℃) 0.70(-40~+85℃)	2.2	180± 12	1.00x0.50x0.40	B-2
RFBLN10051G9D0T	1805~2020	50	100	10	0.65(25℃) 0.75(-40~+85℃)	2.0	180± 10	1.00x0.50x0.40	B-2
RFBLN10051G8D1T	1805~2170	50	100	10	0.65(25℃) 0.70(-40~+85℃)	3.0	180± 15	1.00x0.50x0.40	E
RFBLN1005040F1T	1805~2170	50	100	10	0.70(25℃) 0.80(-40~+85℃)	1.2	180± 15	1.00x0.50x0.40	F
RFBLN2012090F0T	1920~1980 2110~2170	50	50	10	1.0	2.0	180± 10	2.00x1.25x0.95	A-2
RFBLN0605040E0T	2000~2500	50	100	10	0.60(25℃) 0.70(-40~+85℃)	3.5	180± 10	0.65x0.50x0.40	E
RFBLN06052G5WM9T16	2300~2690	50	100	10	0.55(25℃) 0.65(-40~+85℃)	2.5	180± 10	0.65x0.50x0.40	E
RFBLN10052G5WM9T16	2300~2690	50	100	10	0.55(25℃) 0.65(-40~+85℃)	2.5	180± 10	1.00x0.50x0.40	B-1
RFBLN10052G5W37N2T	2300~2690	50	100	10	0.65(25℃) 0.75(-40~+85℃)	2.5	180± 10	1.00x0.50x0.40	B-2
RFBLN16082G5W0T	2300~2700	50	100	10	1.1	2.0	180± 10	1.60x0.80x0.70	A-2
RFBLN16082G5W38Q1C	2300~2700	50	100	10	0.55(25℃) 0.65(-40~+85℃)	1.0	180± 10	1.60x0.80x0.40	A-4
RFBLN16082G5W4T	2300~2700	50	50	10	1.2	2.0	180± 10	1.60x0.80x0.50	A-2

GSM 850/ GSM 900/ DCS1800/ PCS1900 APPLICATION

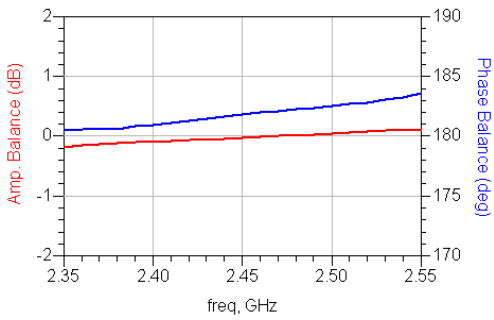
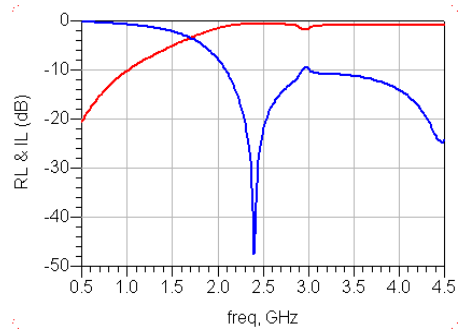
Part Number	Frequency Range (MHz)	Unbalance	Balance	Return Loss (dB)Min	Insertion Loss (dB)	Amplitude Difference (dB)Max	Attenuation (dB min.)	Phase Difference	Size(mm)	Structure
RFBLN2012090BM5T25	869~960	50	200	10	1.1	2.0	10(1738~1920MHz) 20(2400~2500MHz) 20(2607~2880MHz)	180± 10	2.00x1.25x0.95	C-1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

■ TYPICAL ELECTRICAL CHARACTERISTICS

RFBLN1005040A3T

Amplitude and Phase Balance	Insertion and Return Loss
	

RFBLN1608060AM1T59

Amplitude and Phase Balance	Insertion and Return Loss
	

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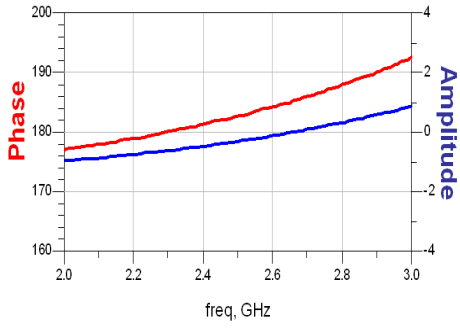	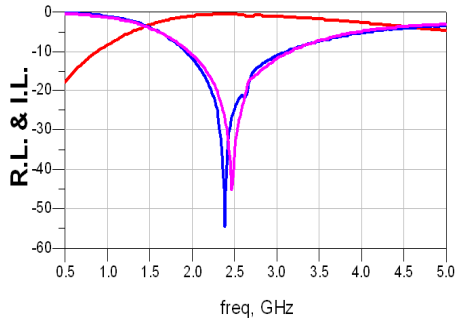

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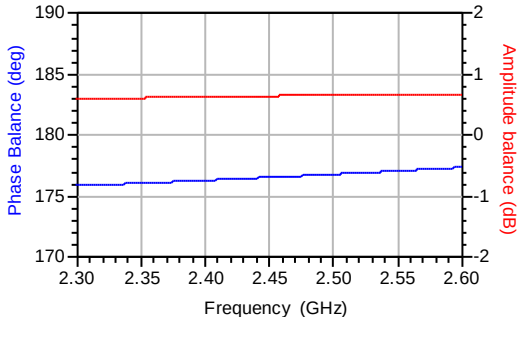	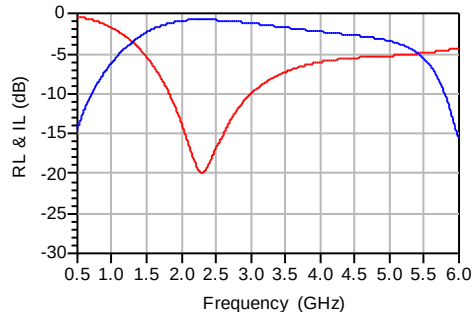

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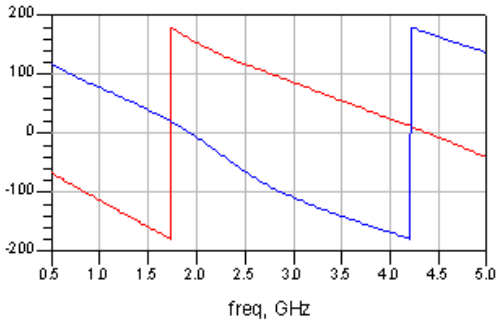	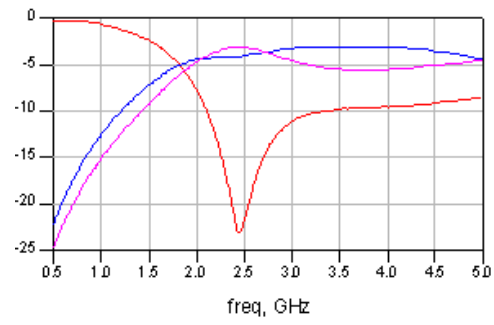

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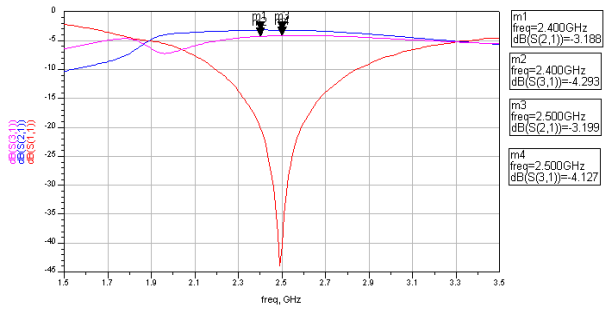	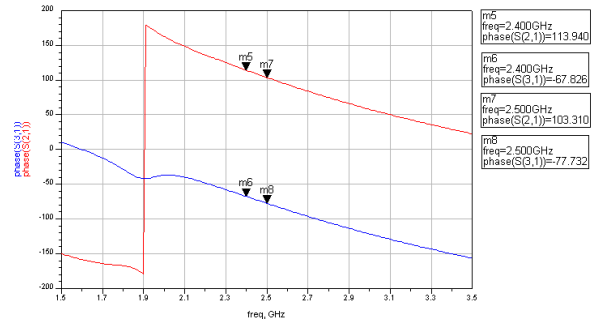

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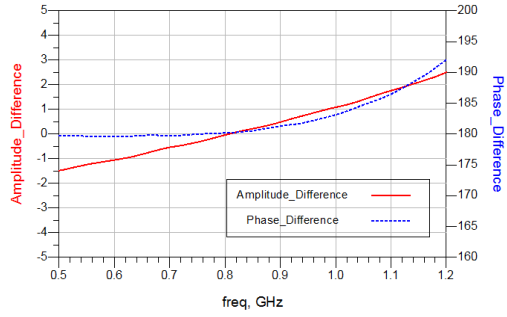
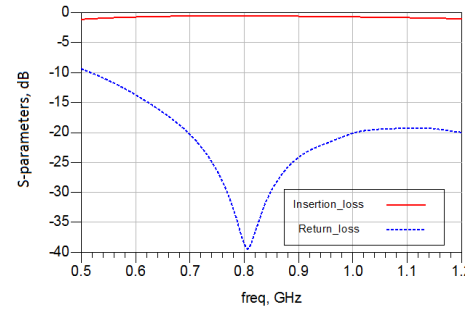
Amplitude and Phase Balance	Insertion and Return Loss
	

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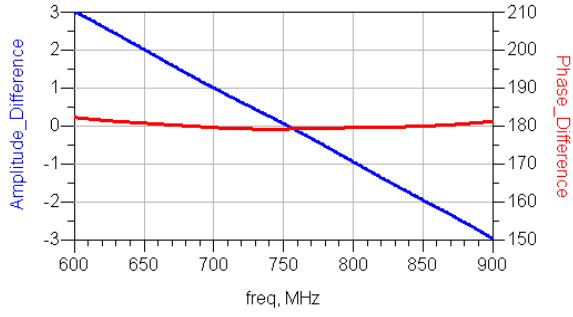	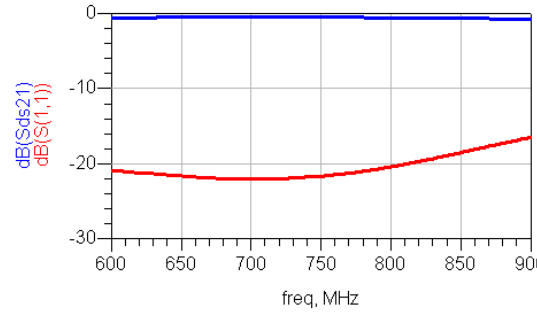

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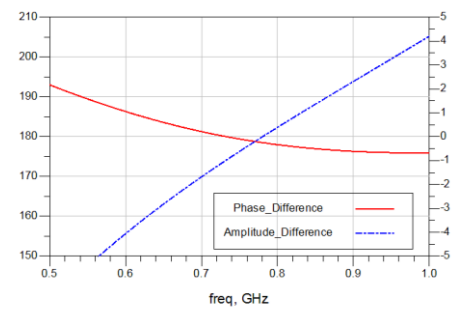	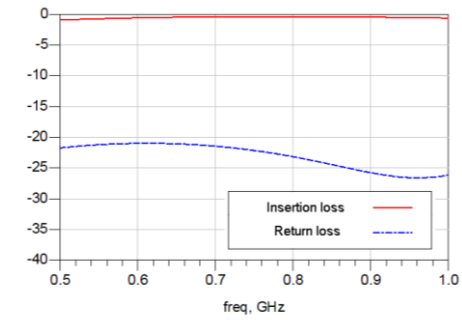
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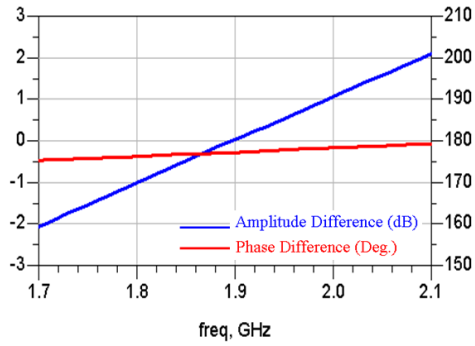	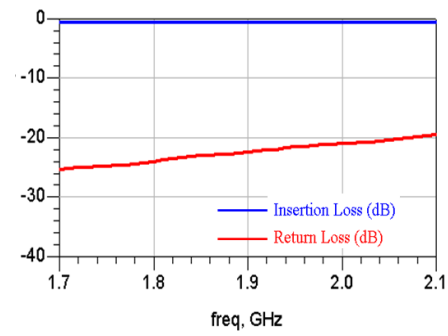
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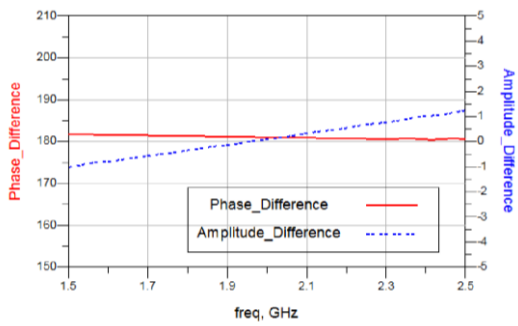	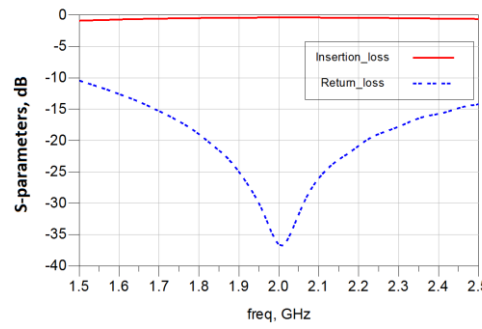
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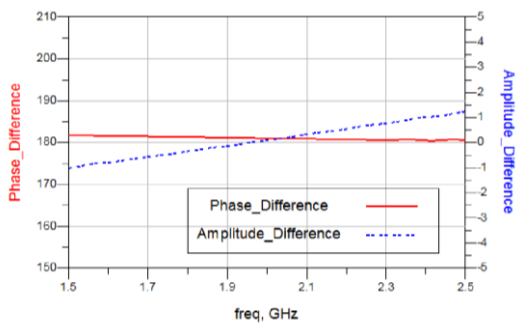	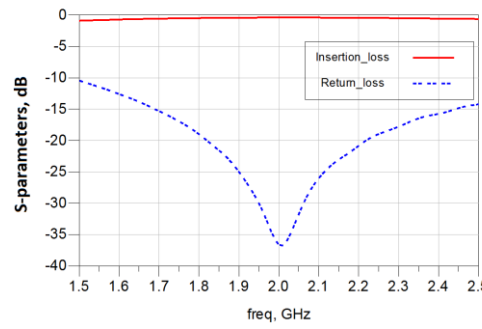

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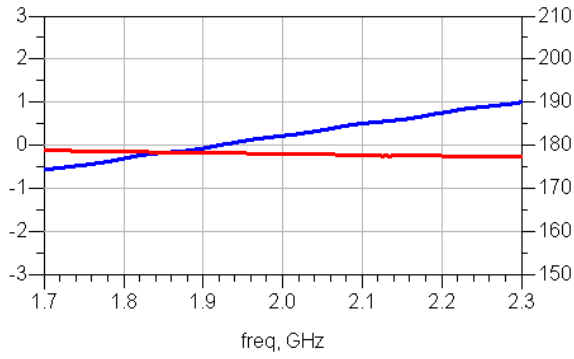
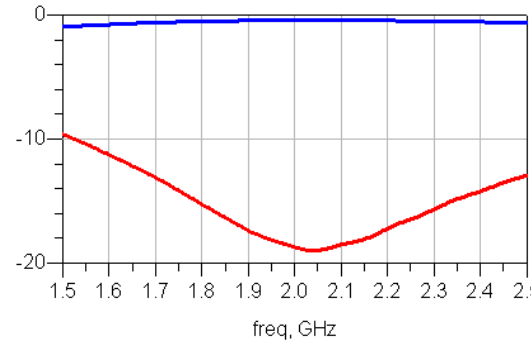
Amplitude and Phase Balance	Insertion and Return Loss
	

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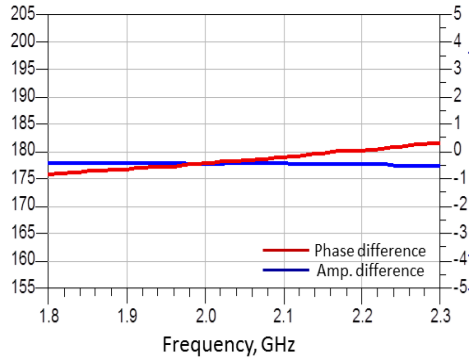	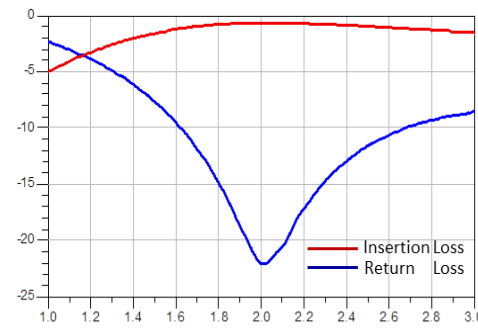

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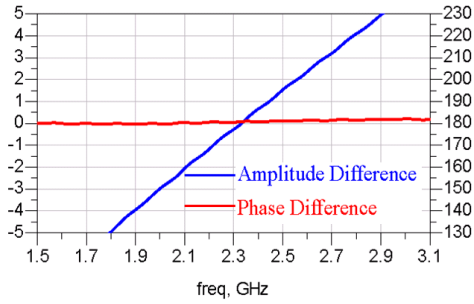
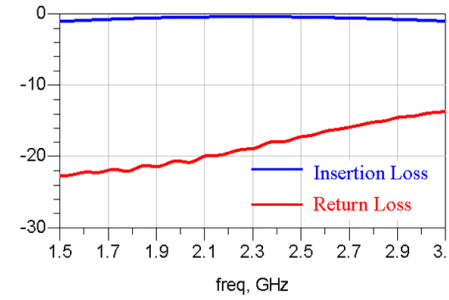
Amplitude and Phase Balance	Insertion and Return Loss
	

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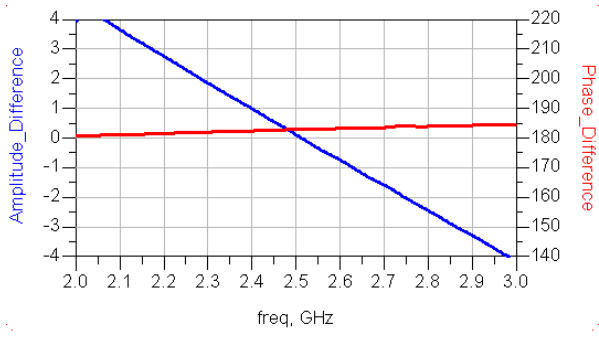
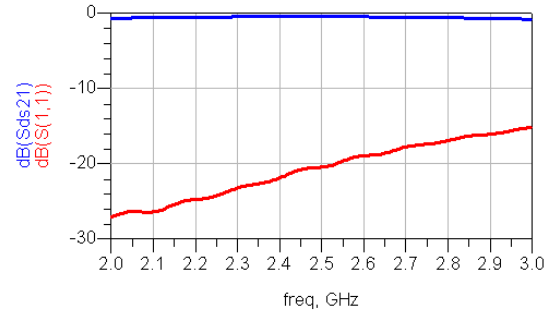
Amplitude and Phase Balance	Insertion and Return Loss
	

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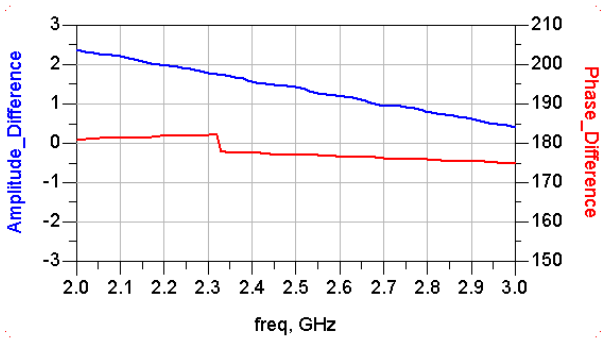

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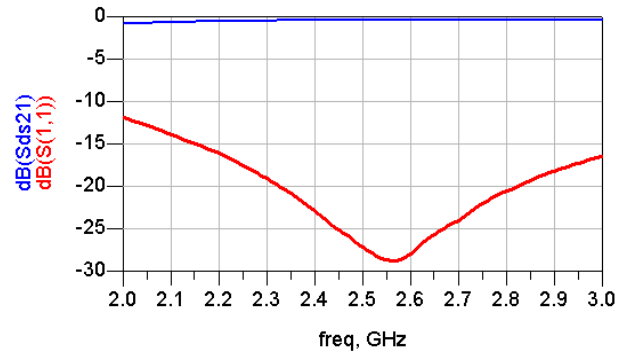

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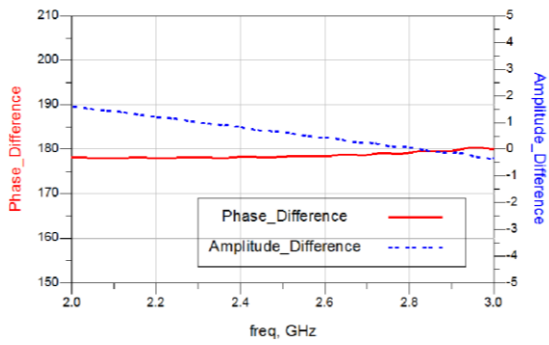
Amplitude and Phase Balance



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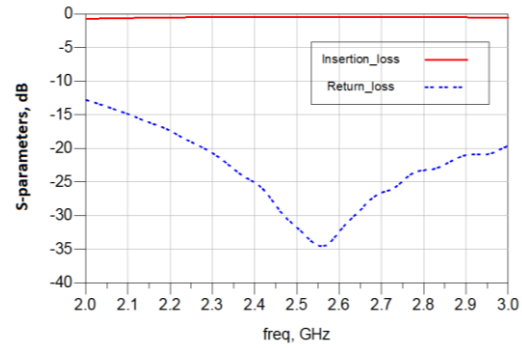

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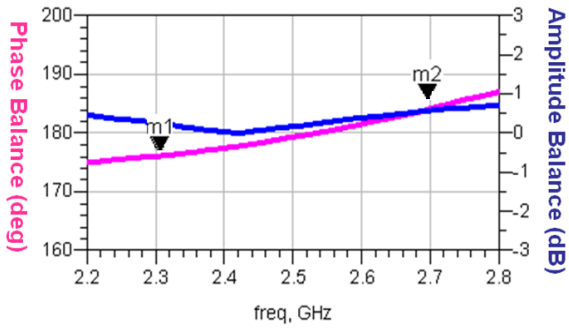

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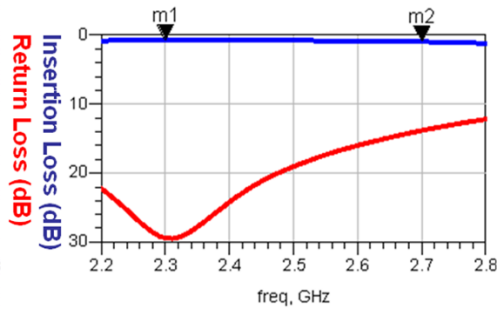

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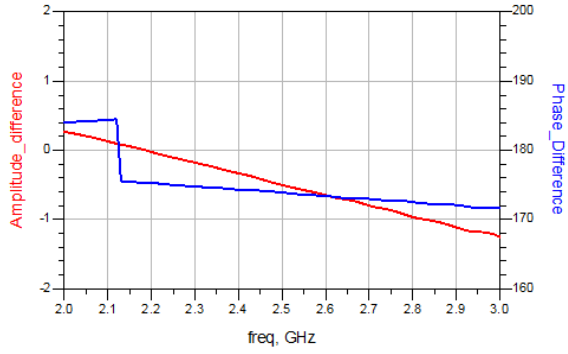
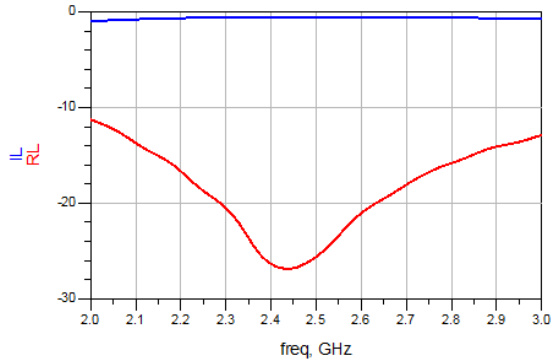


Insertion and Return Loss



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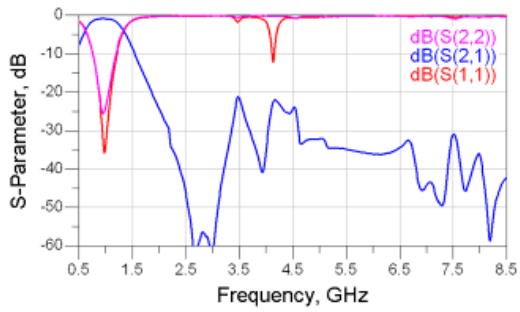	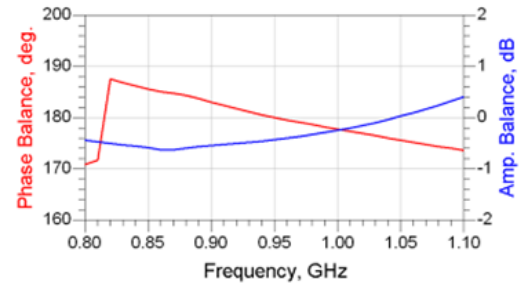
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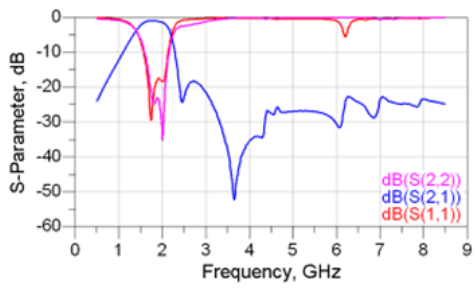	
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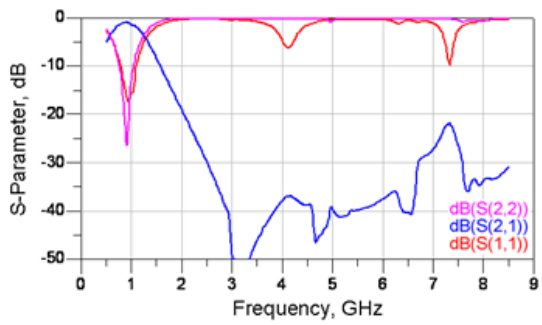	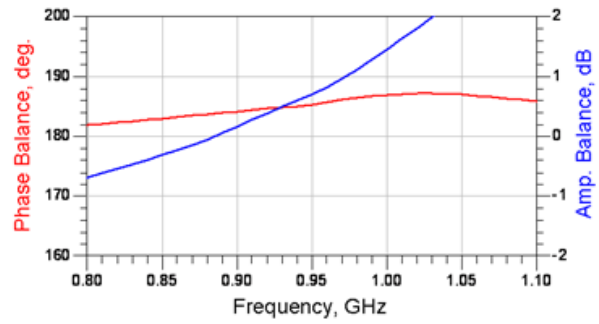
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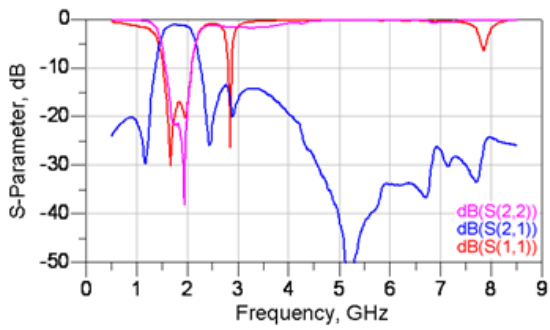	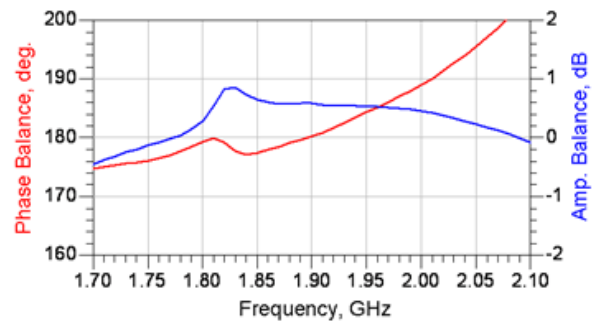

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