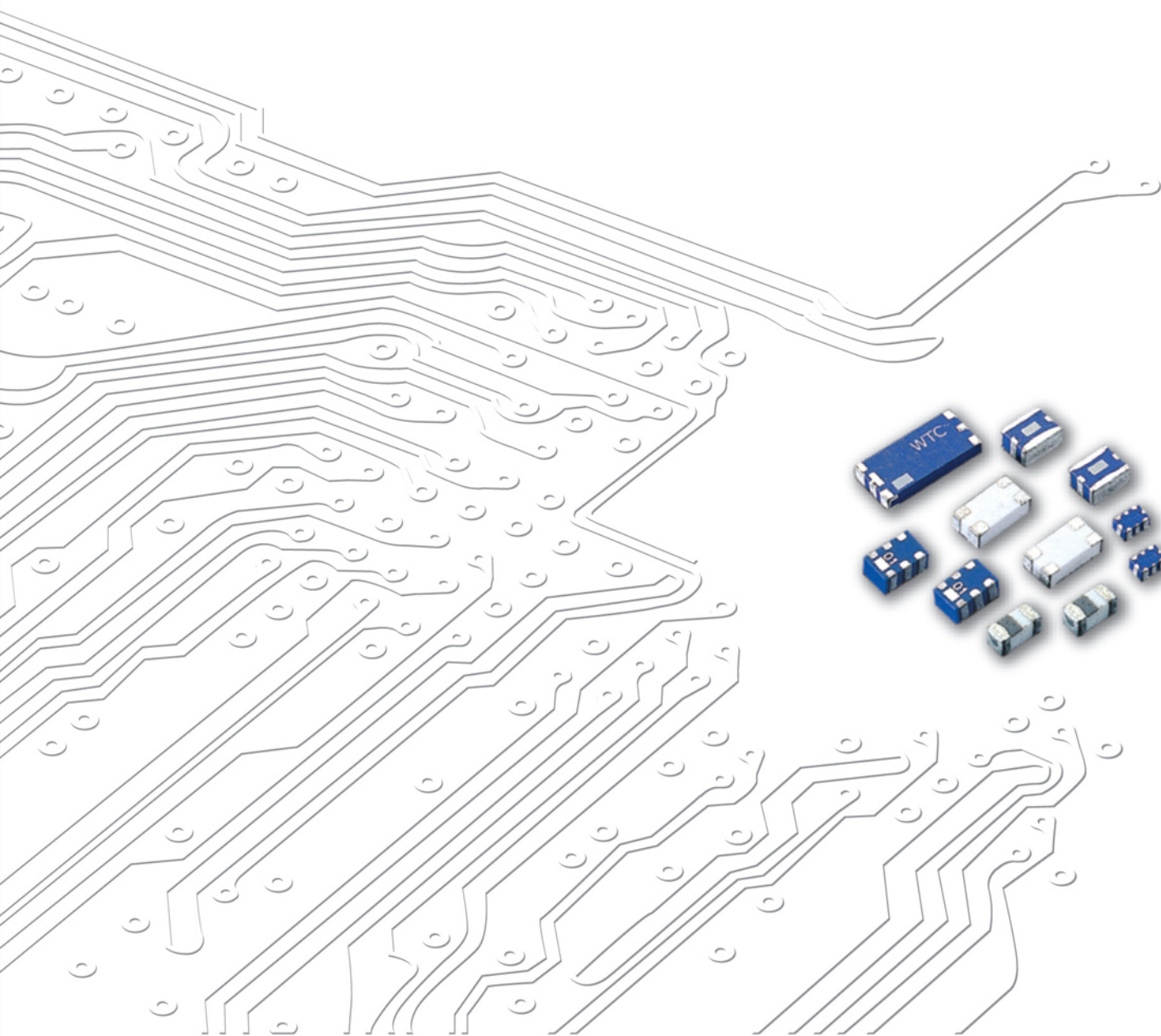


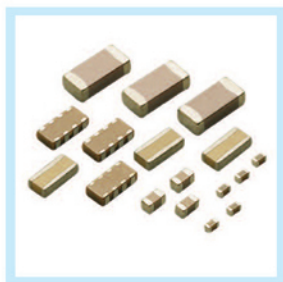
RF Devices and Customer made Antenna

Product catalog

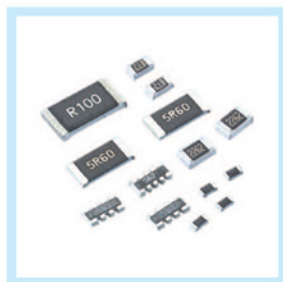
www.passivecomponent.com



Product Portfolio



Multilayer Ceramic Capacitors (MLCC)



Chip-Resistor



Disc Capacitors



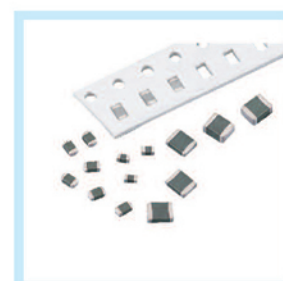
RF Device and High Frequency Inductors



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: $\sqrt[6]{10} \approx 1.46$ E12: $\sqrt[12]{10} \approx 1.21$

E1 series resistance: 1Ω, 10Ω, 100Ω, 1000Ω, 10000Ω, 100000Ω

■ DIPLEXER

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

■ TRIPLEXER

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

■ COMMON MODE FILTER

RF	CMF	122010	0	M	3	T
Type code	Product code	Dimension code	Unit of dimension	Application	Specification	Packing
RF/RG: device	CMF : Common Mode Filter	Per 2 digits of Length, Width. 122010 = Length =12 Width = 20 Thickness = 10	0 : 0.1 mm 1 : 1.0 mm	M: USB 2.0/ IEEE1394	Code from 0-9 dependent on different electrical specification	T : 7" Reeled

■ COUPLER

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

■ SAW FILTER

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

■ ANTENNA SWITCH

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

■ ANTENNA SWITCH MODULE

RM	ASM	N	T1492A	T
Type code	Product code	Application	Serial Number	Packing
RM: Walsin RF Module Device	ASM: Antenna Switch Module	N: SP16T	Design Code	T: 7" Reeled

■ STRUCTURE AND PIN ASSOCIATED

51

■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F
A	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	0.25±0.20	0.30±0.20
B	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	-
C	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	-
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	-
	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	-	-
E	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	-
F	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
	2.00±0.15	1.25±0.15	0.95±0.15	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	0.30±0.20	0.25±0.20

■ 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
RFDIP1608060L0T	2400~2500	50	0.8	18(4800~5000MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	D-1
	4900~5900	50	1.2	20(3700~3900MHz) 20(1800~2500MHz) 20(9800~11800MHz)				
RFDIP1608060L3T	2400~2500	50	0.8	18(4800~5000MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	D-2
	4900~5900	50	1.2	20(3700~3900MHz) 20(1800~2500MHz) 20(9800~11800MHz)				
RFDIP1608060LBT	2400~2500	50	0.6	20(4800~5000MHz) 20(7200~7500MHz)	10	28(30~2700 MHz) 26(4900~5950 MHz)	1.60x0.80x0.60	D-3
	4900~5900	50	1.4	28(30~2700MHz) 10(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	D-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	D-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	D-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	D-1
	4900~5950	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170 MHz) 10(8100~8800 MHz) 15(8820~9800 MHz) 25(9800~11900 MHz)		25(4800~5000 MHz)		
RFDIP160806ALM6T30	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	D-2
	4900~5950	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170 MHz) 10(8100~8800 MHz) 15(8820~9800 MHz) 25(9800~11900 MHz)		25(4800~5000 MHz)		

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
RFDIP1608060LVT	2400~2500	50	0.6	-	10	32 (30~2700 MHz) 28(4900~5950 MHz)	1.60x0.80x0.60	D-4
	4900~5950	50	0.8	32(30~2700MHz) 15(9800~11900 MHz) 11(14700~17850 MHz)				
RFDIP1608060LST	2400~2500	50	0.5(25℃) 0.6(-40~+85℃)	22(4800~5000MHz) 24(7200~7500 MHz)	10	-	1.60x0.80x0.60	F-3
	5100~5900	50	1.1(25℃) 1.3(-40~+85℃)	25(1800~2500MHz) 24(3700~3900MHz) 22(9800~11900MHz)				
RFDIP1608060LY8Q1C	2400~2496	50	0.5	35(4800~5000MHz) 15(7200~7500 MHz)	12	-	1.60x0.80x0.60	D-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℃) 0.60(-40~+85℃)	29(4800~5000MHz) 24(7200~7500 MHz)	10	32(30~2700MHz) 28(4900~5950 MHz)	1.60x0.80x0.60	D-3
	4900~5950	50	0.70(25℃) 0.80(-40~+85℃)	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP1606L42T	2400~2500	50	0.6	23(4800~5000MHz) 30(7200~7500MHz)	10	40(5150~5850MHz)	1.60x0.80x0.60	D-3
	5100~5850	50	1.5	25(2400~2500MHz) 15(3400~3600MHz) 10(3600~3900MHz) 20(6900~7550MHz) 30(10600~11700MHz) 20(15300~16200MHz)				
RFDIP1606L44T	2400~2500	50	0.6	23(4800~5000MHz) 30(7200~7500MHz)	10	40(5150~5850MHz)	1.60x0.80x0.60	D-4
	5100~5850	50	1.5	25(2400~2500MHz) 15(3400~3600MHz) 10(3600~3900MHz) 20(6900~7550MHz) 30(10600~11700MHz) 20(15300~16200MHz)				
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	D-3
	4900~5950	50	1.0	20(824~915MHz) 20(1800~2500MHz) 10(3000~3900MHz) 4(7250MHz) 20(9800~11900MHz) 20(14700~17850MHz)	10			
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	D-4
	4900~5950	50	1.0	20(824~915MHz) 20(1800~2500MHz) 10(3000~3900MHz) 4(7250MHz) 20(9800~11900MHz) 20(14700~17850MHz)	10			
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	D-3
	4900~5950	50	1.0	20(824~915MHz) 18(1800~2500MHz) 14(3000~3900MHz) 20(9800~11900MHz) 20(14700~17850MHz)	10			

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (Db)	Attenuation (Db)	Return Loss (Db)Min	Size(mm)	Structure
RFDIP2012050L5T	2400~2500	50	0.7	18(4800~6000MHz) 18(7200~7500 MHz)	10	2.00x1.25x0.55	D-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	D-2
	4900~5900	50	1.0	19(1800~2500MHz) 25(10300~10700MHz)			
RFDIP2012050L8T	2300~2500	50	0.65(25℃) 0.8(-40~+85℃)	20(4600~5000MHz) 20(6900~7500MHz)	10	2.00x1.25x0.55	D-3
	4900~5950	50	1.0	19(1800~2500MHz) 25(10300~10700MHz)			
RFDIP2012100L0T	2400~2500	50	0.7	20(4900MHz) 25(5200MHz) 25(5800MHz)	10	2.00x1.25x0.95	D-3
	4900~5900	50	0.9	25(2450MHz)			
RFDIP2012100L1T	2400~2500	50	0.7	20(4900MHz) 20(5200MHz) 20(5800MHz)	10	2.00x1.25x0.95	F-1
	4900~5900	50	0.9	20(2450MHz)			
RFDIP2012100L3T	2400~2500	50	0.7	20(4900MHz) 25(5200MHz) 25(5800MHz)	10	2.00x1.25x0.95	D-2
	4900~5900	50	0.9	25(2450MHz)			
RFDIP2012100L4T	2400~2500	50	0.7	20(4900MHz) 20(5200MHz) 20(5800MHz)	10	2.00x1.25x0.95	F-2
	4900~5900	50	1.1	20(2450MHz)			
RFDIP2012050LPT	2400~2500	50	0.5(25℃) 0.55(-40~+85℃)	23(4800~6000MHz) 20(7200~7500MHz)	10	2.00x1.25x0.55	D-1
	4900~5950	50	0.65(25℃) 0.75(-40~+85℃)	20(800~2500MHz) 15(9800~11900MHz)			
RFDIP2012050LQT	2400~2500	50	0.5(25℃) 0.55(-40~+85℃)	23(4800~6000MHz) 20(7200~7500MHz)	10	2.00x1.25x0.55	D-2
	4900~5950	50	0.65(25℃) 0.75(-40~+85℃)	20(800~2500MHz) 15(9800~11900MHz)			
RFDIP2008L107N3T	2400~2500	50	2.2(25℃) 2.4(-40~+85℃)	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	D-1
	5150~5850	50	1.2(25℃) 1.5(-40~+85℃)	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℃) 2.4(-40~+85℃)	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	D-2
	5150~5850	50	1.2(25℃) 1.5(-40~+85℃)	20(1545~1610MHz) 20(1710~1990MHz) 20(2110~2170MHz) 23(2400~2500MHz) 8(3450~3900MHz) 8(7250~7800MHz) 20(9800~11700MHz)			

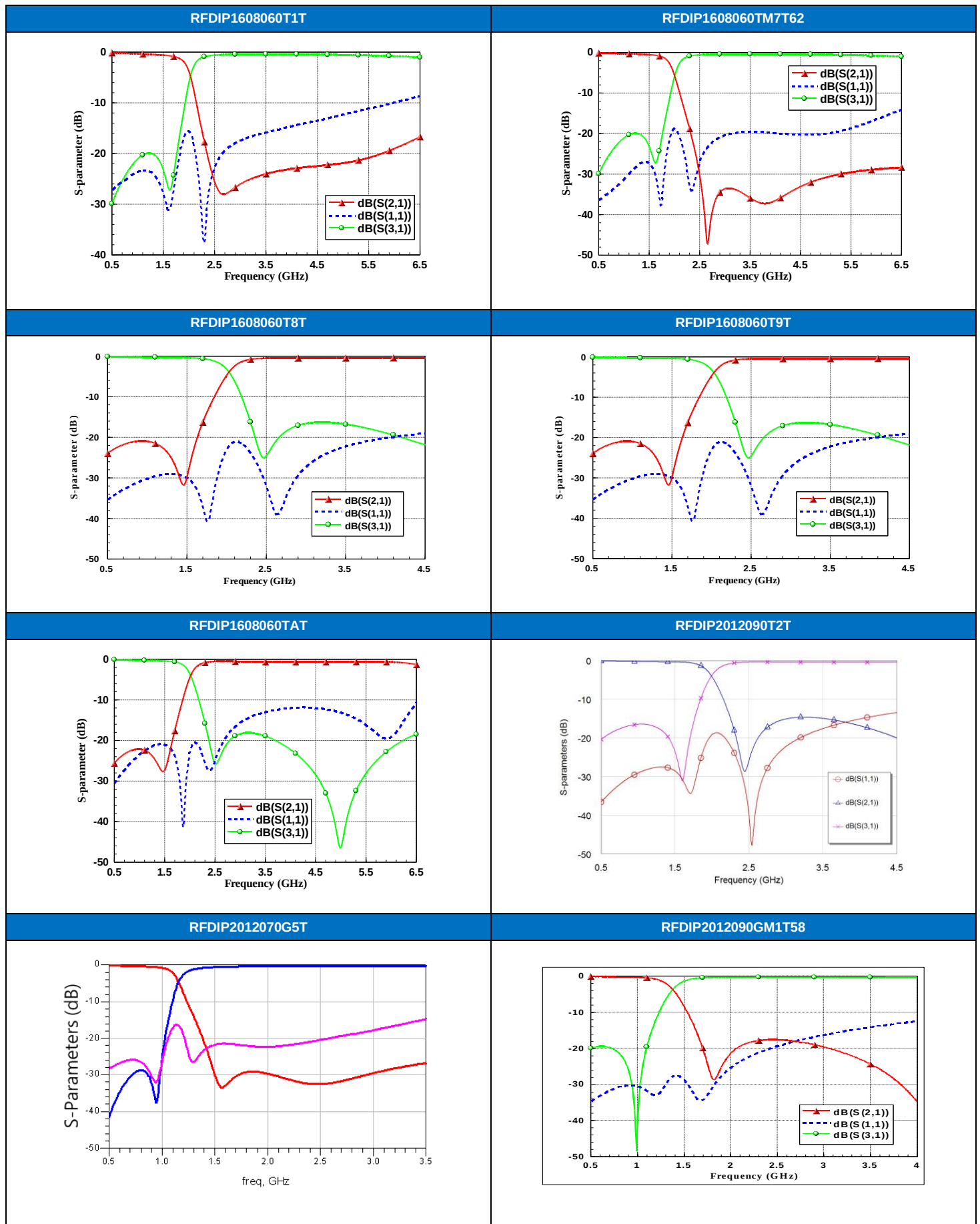
GPS 1.575GHz/ISM 2.4GHz/5GHz Band Application

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	A
	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	D-4
	2400~2500 4900~5900	50	0.65(typ.0.55)	20(1570~1610MHz)			
RFDIP1608070TM1T76	1710~1880	50	0.70(typ.0.59)	15(2500~2390MHz)	10	1.60x0.80x0.70	E-2
	2500~2690	50	0.65(typ.0.58)	15(1710~1880MHz)			
RFDIP1608060T8T	1570~1610	50	0.45(25℃) 0.55(-40~+85℃)	20(2400~2500MHz)	10	1.60x0.80x0.60	D-4
	2400~2500	50	0.5(25℃) 0.6(-40~+85℃)	20(1560~1607MHz)			
RFDIP1608060T9T	1570~1610	50	0.45(25℃) 0.55(-40~+85℃)	20(2400~2500MHz)	10	1.60x0.80x0.60	D-3
	2400~2500	50	0.5(25℃) 0.6(-40~+85℃)	20(1560~1607MHz)			
RFDIP1608060TAT	698~960 1427~1511 1560~1607	50	0.40 max. 0.55 max. 0.65 max.	20(2400~2500MHz) 20(2620~2690MHz) 20(5150~5850MHz)	10	1.60x0.80x0.60	A
	2400~2500 2620~2690 5150~5850	50	0.70 max. 0.60 max. 0.80 max.	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	D-4
	2400~2500 4900~5900	50	0.65(typ.0.55)	20(1570~1610MHz)			
RFDIP2012090T2T	1572.5~1578.5 1597~1607	50	0.4(1572.5~1578.5MHz)(25℃) 0.45(1572.5~1578.5MHz) (-40~+85℃) 0.45(1597~1607MHz)(25℃) 0.5(1597~1607MHz)(-40~+85℃)	13(2400~2500MHz)	10	2.00x1.25x0.90	D-3
	2400~2500	50	0.55(25℃) 0.65(-40~+85℃)	22(1572.5~1578.5MHz) 20(1597~1607MHz)			

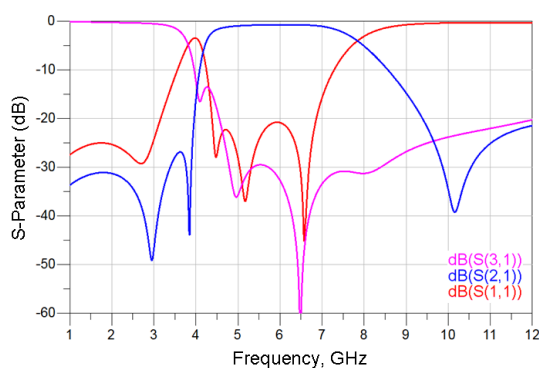
892 MHz & 1.94GHz Band Working Frequency

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	E-2
	1710~2700		0.7(typ.0.50)	20(698~960MHz) 20(5150~5850MHz)			
RFDIP2012090G0T	824~960	50	0.6(25℃) 0.65(-40~+85℃)	15(1710~2170MHz)	10	2.00x1.25x0.90	D-3
	1710~2170		0.6(25℃) 0.65(-40~+85℃)	20(824~960MHz)			
RFDIP2012090G3T	824~960	50	0.6(25℃) 0.65(-40~+85℃)	15(1710~2170MHz)	10	2.00x1.25x0.90	D-4
	1710~2170		0.6(25℃) 0.65(-40~+85℃)	20(824~960MHz)			
RFDIP2012070G5T	570~960	50	0.75	20(1427~2700MHz)	10	2.00x1.25x0.70	B
	1427~2700		0.85	20(570~960MHz)			
RFDIP2012090G77N2T	698~960	50	0.65	15(1554~1580MHz) 20(1710~2700MHz)	10	2.00x1.25x0.90	D-4
	1710~2700		0.65	20(824~960MHz)			
RFDIP2012090GM1T58	698~960	50	0.4(25℃) 0.45(-40~+85℃)	13(1710~2690MHz)	10	2.00x1.25x0.90	B
	1710~2690		0.55(25℃) 0.65(-40~+85℃)	19(698~960MHz)			
RFDIP2520100G2T	698~960	50	0.35(25℃) 0.45(-40~+85℃)	20(1710~2690MHz)	10	2.50x2.00x1.00	C
	1710~2690		0.55(25℃) 0.65(-40~+85℃)	25(698~960MHz) 5(3420~3820MHz)			

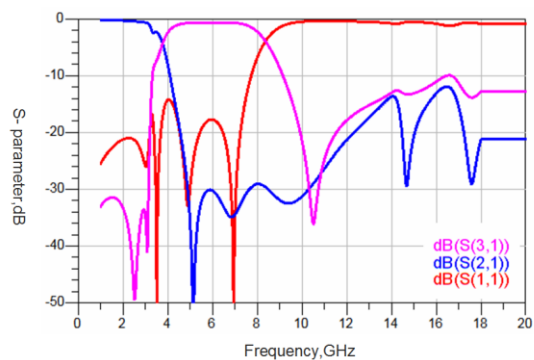
■ TYPICAL ELECTRICAL CHARACTERISTICS



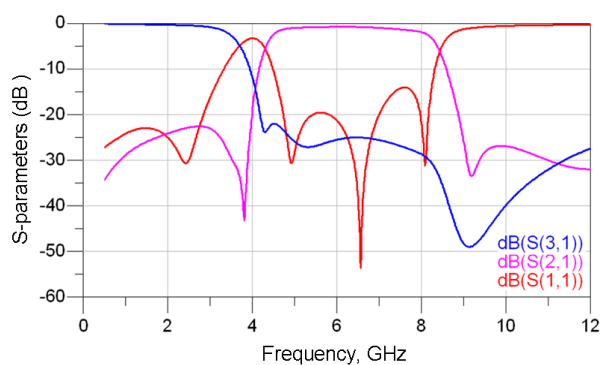
RFDIP1608060LET



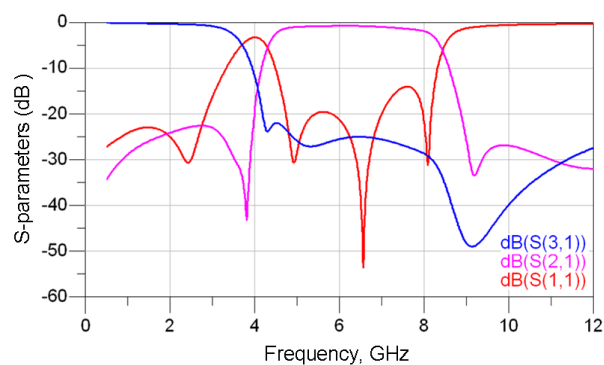
RFDIP1608060LBT



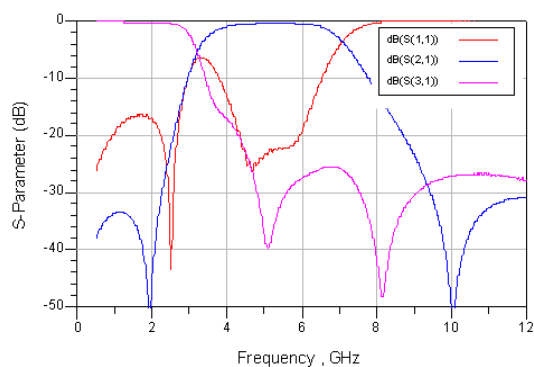
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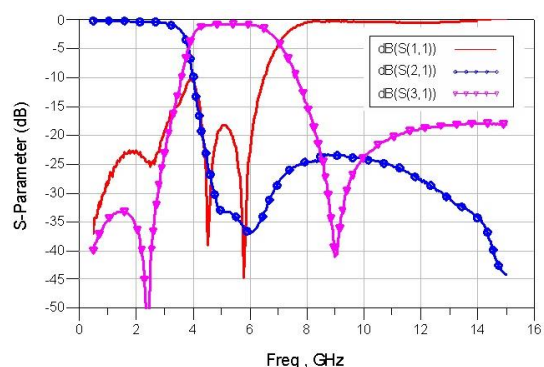
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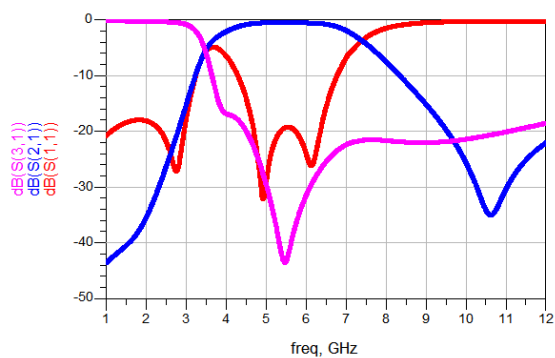
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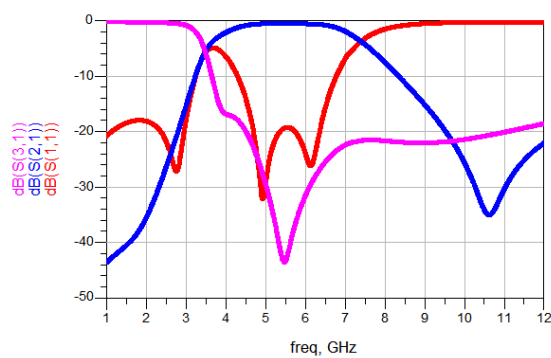
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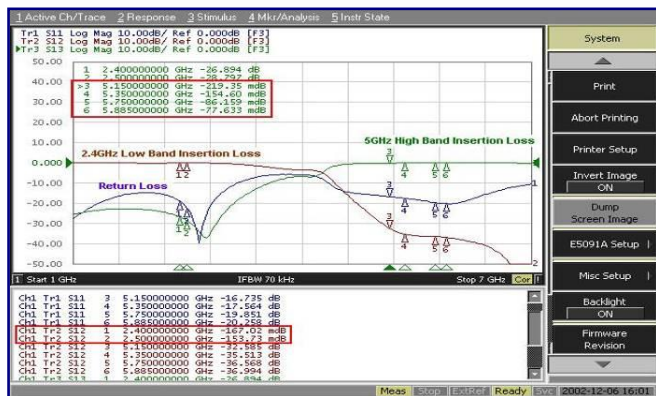
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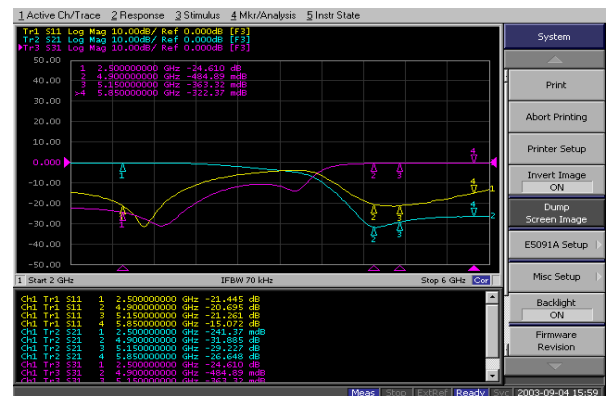
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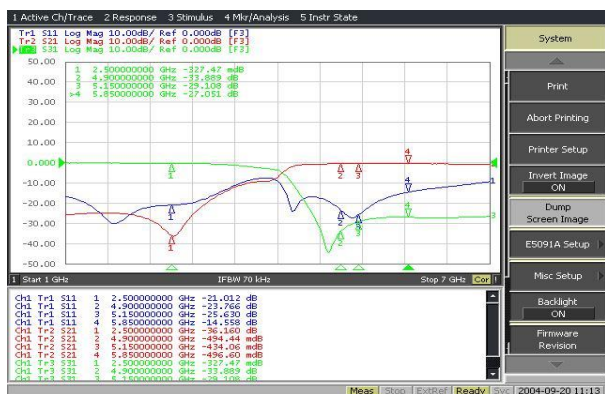
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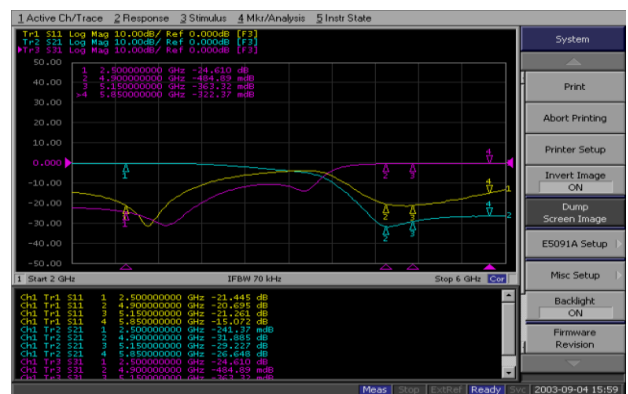
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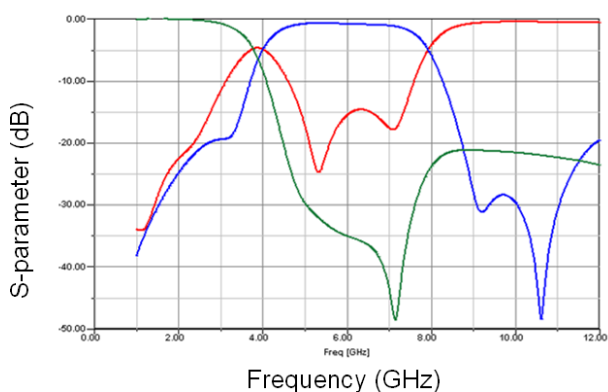
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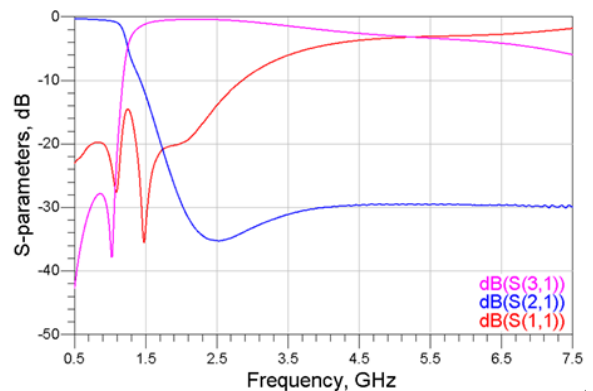
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