

RF product	Part Number	Dimension (mm ³)	Application (mm ²)	Bandwidth	Gain (Typical)	VSWR (Typical)	Polarization	Impedance
ANT (Chip Antenna)	RFANT3216090A0T	3.20x1.60x0.95	2.4GHz ISM Band	150 MHz	2 dBi	2.0	Linear	50 Ohm
	RFANT5220110A0T	5.20x2.00x1.15	2.4GHz ISM Band	100 MHz	2 dBi	2.0		
	RFANT5830110E0T	5.80x3.00x1.10	GPS 1575GHz	40 MHz	0~2 dBi	2.0		
	RFANT6050110L0T	5.90x5.10x1.10	2.4/4.9/5.2/5.8 GHz Multi Band	100/200/100 MHz	1.5 dBi/4 dBi/4 dBi/4 dBi	2.0		
	RFANT6050110L1T	5.90x5.10x1.10	2.4/4.9/5.2/5.8 GHz Multi Band	100/200/100 MHz	1.5 dBi/4 dBi/4 dBi/4 dBi	2.0		
	RFANT7635110A1T	7.60x3.50x1.10	2.4GHz ISM Band	380 MHz	0~2 dBi	2.0		

RF product	Part Number	Dimension (mm ³)	Application	Impedance		Return Loss (Max.)	Insertion Loss (S21)	Amplitude Difference	Phase Difference
				Unbalance	Balance				
BLN (Balun)	RFBLN2012090A0T	2.00x1.25x0.95	2.4GHz ISM Band	50 Ohm	50 Ohm	-10 dB	1.2 dB	2.0 dB	180+/-10°
	RFBLN2012090A1T	2.00x1.25x0.95	2.4GHz ISM Band	50 Ohm	100 Ohm	-10 dB	1.0 dB		180+/-10°
	RFBLN2012090A2T	2.00x1.25x0.95	2.4GHz ISM Band	50 Ohm	200 Ohm	-10 dB	1.0 dB		180+/-10°
	RFBLN2012090K0T	2.00x1.25x0.95	ISM 4.9/5.2/5.8 Dual Band	50 Ohm	50 Ohm	-10 dB	1.1 dB		180+/-10°
	RFBLN2012090K1T	2.00x1.25x0.95	ISM 4.9/5.2/5.8 Dual Band	50 Ohm	100 Ohm	-10 dB	1.2 dB		180+/-10°

RF product	Part Number	Dimension (mm ³)	Application	Impedance		Return Loss (Max.)	Insertion Loss (S21)	Amplitude Difference	Phase Difference	Attenuation (MHz)			
				Unbalance	Balance					900	1900	4800	7200
BPB (Band Pass Filter + Balun)	RFBPB 2520120A1T	2.50x2.00 x1.20	2.4GHz ISM Band	50 Ohm	100 Ohm	-10 dB	2.00	1.2 dB	180+/-10°	25 dB	25 dB	30 dB	20 dB
	RFBPB 2520120A2T	2.50x2.00 x1.20	2.4GHz ISM Band	50 Ohm	100 Ohm	-10 dB	2.00	1.4 dB	180+/-10°	25 dB	25 dB	30 dB	15 dB

RF	Part Number product	Dimension (mm ³)	Application	VSWR	Inser Los (S21)	Impedance	Attenuation (MHz)					
							900	1900	2100	3450	4800	11000
BPF (Band Pass Filter)	RFBPF2012090A1T	2.00x1.20x0.90	2.4GHz ISM Band	2.0	1.7 dB	50 Ohm	30 dB	20 dB	-	30 dB	-	-
	RFBPF2012100K0T	2.00x1.25x0.95	ISM 4.9 / 5.2/ 5.8 Dual Band	2.0	1.7 dB		-	-	-	-30 dB	-	-20 dB
	RFBPF2520120A1T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	1.7 dB		30 dB	30 dB	20 dB	-	40 dB	-
	RFBPF2520120A2T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	2.1 dB		30 dB	30 dB	-	-	30 dB	-
	RFBPF2520120A3T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	1.2 dB		30 dB	30 dB	-	-	25 dB	-
	RFBPF2520120A4T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	1.7 dB		30 dB	30 dB	-	-	25 dB	-
	RFBPF3225150A4T	3.20x2.50x1.50	2.4GHz ISM Band	2.0	2.0 dB		30 dB	30 dB	20 dB	-	30 dB	-
	RFBPF3225150A5T	3.20x2.50x1.50	2.4GHz ISM Band	2.0	1.8 dB		30 dB	30 dB	20 dB	-	30 dB	-

RF product	Part Number	Dimension (mm ³)	Application	Comon Mode Attenuation	Differential Mode Insertion Loss (S21)	DC Resistance	Rate Current	Differential Impedance
CMF (Common Mode Filter)	RFCMF1220100M3T	2.00x1.25x1.00	USB2.0/1394	9.0 dB@240 MHz-1GHz	0.6 dB@240 MHz	1.5 Ohm	200 mA	90 Ohm
	RFCMF1220100M4T	2.00x1.25x1.00	USB2.0/1394	9.0 dB@130 MHz-1GHz	1.0 dB@240 MHz	2.5 Ohm	200 mA	
	RFCMF1632140M2T	1.60x3.20x1.40	USB2.0/1394	9.0 dB@140 MHz-1GHz	0.8 dB@240 MHz	2.5 Ohm	300 mA	
	RFCMF1632090M3T	1.60x3.20x1.00	USB2.0/1394	9.0 dB@240 MHz-1GHz	0.6 dB@240 MHz	1.5 Ohm	300 mA	
	RFCMF3216090M1T	3.20x1.60x0.95	USB2.0/1394	8.0 dB@240 MHz-1GHz	0.8 dB@240 MHz	1.5 Ohm	200 mA	
	RFCMF3216090M2T	3.20x1.60x1.30	USB2.0/1394	9.0 dB@150 MHz-1GHz	1.1 dB@240 MHz	2.5 Ohm	200 mA	

RF product	Part Number	Dimension (mm ³)	Application	Impedance	VSWR		Peak Average Gain			Polarization
					2.4GHz	5GHz	Gain	2.4GHz	5GHz	
PCA (PCB Antenna)	RFPCA5406 Series	54.00x6.00x0.40	2.4/4.9/5.2/5.8 GHz Multi Band	50 Ohm	2.00	2.50	< 3 dBi	> -4 dBi	-5 dBi	BiLinear
	RFPCA4006 Series	45.00x6.00x0.40	2.4/4.9/5.2/5.8 GHz Multi Band		2.00	2.50	< 3 dBi	> -4 dBi	-5 d	
	RFPCA2207 Series	22.00x7.00x0.40	2.4GHz ISM Band		2.50		< 3dB	> -5 dB		

Remark: Cable length and connector are available based on customer's request.

RF product	Part Number	Dimension (mm ³)	Application	VSWR	Insertion Loss (S21)		Insertion Loss (S21)					Ripple	Impedance
					Band1	Band2	Band 1		Band2				
							824MHz	1710MHz	824MHz	2.4GHz	1710MHz		
DIP (Diplexer)	RFDIP 2012080BOT	2.00x1.25 x0.75	GSM 900/1800 /1900 Tri Band	2.0	0.8 dB	0.8 dB	824MHz	-	-	-15.0 dB	-	0.5 dB	50 Ohm
							1710MHz	-15.0 dB	-	-	-		
							2.45GHz	-	-	-	-25.0 dB		
							4.9GHz	-	-20.0 dB	-	-		
							5.2GHz	-	-25.0 dB	-	-		
							5.8GHz	-	-25.0 dB	-	-		
	RFDIP 2012100LOT	2.00x1.25 x1.00	2.4/4.9/5.2/5.8 GHz Tri Band	2.0	0.7 dB	0.9 dB	824MHz	-	-	-	-		
							1710MHz	-	-	-	-		
							2.45GHz	-	-	-	-20.0 dB		
							4.9GHz	-	-20.0 dB	-	-		
							5.2GHz	-	-20.0 dB	-	-		
							5.8GHz	-	-20.0 dB	-	-		
RFDIP 2012100L1T	2.00x1.25 x0.95	2.4/4.9/5.2/5.8 GHz Tri Band	2.0	0.6 dB	0.9 dB	824MHz	-	-	-	-			
						1710MHz	-	-	-	-			
						2.45GHz	-	-	-	-20.0 dB			
						4.9GHz	-	-20.0 dB	-	-			
						5.2GHz	-	-20.0 dB	-	-			
						5.8GHz	-	-20.0 dB	-	-			
RFDIP 2012100L2T	2.00x1.25 x1.00	2.4/4.9/5.2/5.8 GHz Tri Band	2.0	0.7 dB	0.9 dB	824MHz	-	-	-	-25.0 dB			
						1710MHz	-	-	-	-			
						2.45GHz	-	-	-	-			
						4.9GHz	-	-20.0 dB	-	-			
						5.2GHz	-	-25.0 dB	-	-			
						5.8GHz	-	-25.0 dB	-	-			

RF product	Part Number	Dimension (mm ³)	Application	VSWR	Insertion Loss (S21)	Attenuation
LPF (Low Pass Filter)	RFLPF2012110A0T	2.00x1.25x1.05	2.4GHz ISM Band	1.50	0.7 dB	30@2x(fo +/- BW/2) 25@3x fo +/- BW/2
	RFLPF2012090K0T	2.00x1.25x0.90	ISM 4.9/5.2/5.8 Dual Band	2.00	-0.55 dB	-25 dB@9.8GHz -25 dB@11.7GHz -20 dB@17.55GHz

RF product	Dimension (mm ³)	Working Voltage Range (V)		Max. Clamping Voltage at Specified Current (8/20µs) Range (V)	Nominal Voltage Range at 1mA (DC) Current (V)	
		Vm (DC)	Vm (AC)		Vn (DC) Min.	Vn (DC) Max.
MLV (Chip Varistor)	1.00x0.50x0.50(0402)_VZ	5.5~18.0	4.0~14.0	23.5~49.0 at 1A	6.0~22.0	9.6~30.0
	1.00x0.50x0.50(0402)_VH	5.5~18.0	4.0~24.0	23.0~61.0 at 1A	6.5~27.0	9.5~36.0
	1.60x0.80x0.90(0603)_VZ	5.5~30.0	4.0~25.0	18.0~58.0 at 2A/22.0~77.0 at 1A	6.4~34.2	9.5~41.8
	2.00x1.25x0.80(0805)_VZ	5.5~30.0	4.0~40.0	17.0~65.0 at 5A/24.0~84.0 at 1A	7.1~37.0	9.3~46.0
	3.20x1.60x0.80(1206)_VZ	5.5~56.0	4.0~40.0	19.0~110.0 at 10A/21.0~88.0 at 2A	6.4~60.0	9.3~74.0

Remark: "VH" series are available upon request for high speed application and low capacitance requirements; "VZ" series is for normal ESD / Surge protection.

RF product	Dimension (mm ³)	L (nH)	Tolerance	SRF Typical (MHz)	RDC Max (Ohm)
WL (HF Inductor)	1.00x0.50x0.50 (0402)	1.0~100	+/-0.3nH ; +/-5%	930~13000	0.12~2.3
	1.60x0.80x0.90 (0603)	1.0~270	+/-0.3nH ; +/-5%	450~13000	0.1~3.10