Milestones of HISTORY
Walsin Technology Corporation

1992	• Incorporation of Walsin Tech
1997	• Listed on TASDAQ
2000	• Asian's Best Buy by Asia Weekly
2001	• Strategic Alliances (in Europe,Korea and Japan)
	• Listed on TSE - 2492.TW
	• Mass Production China (DL) Plant
	• Acquisition Nitsuko Electronics
	• MLCC Taiwan #1, World # 6
2002	• Phase I Global IT and Logistics Ready
	• ISO 14000 & QS 9000 Ready
	• China (SZ) Plant Ground Breaking
	• Sony Green Partner
	• 22 Patents (19 in HF and 3 in Materials)
	• Zero Coupon ECB Issue (II)
2003	• Acquired POE (2370.TW) 22.5% stake
	• MLCC World # 4
	• Mass Production China (SZ) Plant
	• Acquired EDEN (6157.TW) 30% stake
	• Strategic Alliance — Vishay Group
	• Zero Coupon ECB Issue (II)
	• 43 Patents (5 in Materials)
2004	• Mass Production China (DL) Plant Full Process MLCC and Chip R Expansion.
	• PSA NPA&S held on April.
	• Syndication Loan 30MUSD.
	• 50 Patents
	• Award of Industrial Technology Advancement
2005	• Acquisition PDC
	• Strategic Alliance -Arrow
	• Samsung Green Partner Certificated
2006	• Acquisition Japan Kamaya Electric CO.
	• MLCC #1 in China & Taiwan, World #3
	• Set up Tai-Chung Branch (Disc Cap.)
2007	• 168 Patents in WTC Group
	• Strategic Alliance - Frontier
2008	• Challenge National Quality Award

PSA 被动系统联盟 PASSIVE SYSTEM ALLIANCE

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Walsin Technology Corporation

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Sep. 2007

PSA ISO 9001, QS 9000, ISO 14000 被动系统联盟 PASSIVE SYSTEM ALLIANCE

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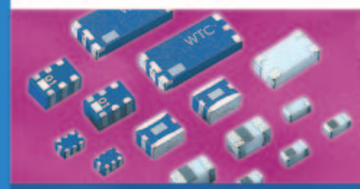

RF Devices and High Frequency Inductors

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HF Inductors & RF Devices Product Portfolios

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RF product	Part Number	Dimension	Application (mm³)	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
	RFANT3216120AxT	3.20x1.60x1.20	2.4GHZ ISM Band	150 MHz	2 dBi	2.0		
	RFANT5200120ExT	5.20x2.00x1.15	2.4GHZ ISM Band	100 MHz	2 dBi	2.0		
	RFANT5830110E0T	5.80x3.00x1.10	GPS 1575 GHz	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	0~2dBi	2.0		
	RGFRA1903041A1T	19x3.8x1.10	2.4GHZ ISM Band	200 MHz	0~2 dBi	2.0		
	RGFRA9937380A3T	7.60x3.50x1.10	2.4GHZ ISM Band	120 MHz	0~2 dBi	2.0		

RF product	Part Number	Dimension (mm³)	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	300 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	

RFproduct	Part Number	Dimension (mm³)	Application	Impedanc		Return Loss (Max.)	Insertion Loss(S21)	Amplitude Difference	Phase Difference
				Unbalance	Balance				
BLN (Balun)	RGBLN1608070A1T	2.00x1.25x0.80	2.4GHz ISM Band	50 Ohm	100 Ohm	-10 dB	1.5 dB	2.0 dB	180°+/-10°
	RGBLN1608070A5T	2.00x1.25x0.80	2.4GHz ISM Band	50 Ohm	100 Ohm	-10 dB	1.2 dB		180°+/-10°
	RGBLN2012080A4T	2.00x1.25x0.80	2.4GHz ISM Band	50 Ohm	50 Ohm	-10 dB	1.5 dB		180°+/-10°
	RFBLN2012090A0T	2.00x1.25x0.95	2.4GHz ISM Band	50 Ohm	50 Ohm	-10 dB	1.2 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 (mm³)	Application	VSWR	Insertion Loss (S21)		Insertion Loss (S21)				Ripple	Impedance
							Band 1			Band2		
					Band1	Band2	4.9GHz	5.2GHz	5.8GHz	2.45GHz		
DIP (Diplexer)	RFDIP 2012100L0T	2.00x1.25 x1.00	2.4/4.9/5.2/5.8 GHz Tri Band	2.0	0.7 dB	0.9 dB	-20.0 dB	-25.0 dB	-25.0 dB	-25.0 dB	0.5 dB	50 Ohm
	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	-20.0 dB	-20.0 dB	-20.0 dB	-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	-20.0 dB	-25.0 dB	-25.0 dB	-25.0 dB		

RF product	Part Number	Dimension (mm³)	Application	Impedanc		Return Loss (Max.)	Insertion Loss (S21)	Amplitude Difference	Phase Difference	Attenuation
BPB (Band Pass Filter + Balun)	RFBPB2012090A1T	2.00x1.20x0.90	2.4GHZ ISM Band	50 Ohm	Conjugate match to DC series of Bluetooth chipset	-10 dB	3.50	2.0 dB Max	180°+/-10°	35dB @ 880~960 MHz 30dB @ 1710~1880/4800~5000 MHz 20dB @ 1880~1990 MHz
	RFBPB2012090A3T	2.00x1.20x0.90	2.4GHZ ISM Band	50 Ohm		-10 dB	3.50	2.0 dB Max	180°+/-10°	
	RFBPB2012090A9T	2.00x1.20x0.90	2.4GHZ ISM Band	50 Ohm		-10 dB	2.80	2.0 dB Max	180°+/-10°	30dB @ 880~960/1/10~1880/4800~5000 MHz 20dB @ 1880~1990 MHz
	RFBPB2012110A5T	2.00x1.20x1.10	ISM 4.9/5.2/5.8 Dual Band	50 Ohm		-10 dB	2.80	2.0 dB Max	180°+/-10°	35dB @ 880~960 MHz 25dB @ 1710~1880 MHz 30dB @ 4800~5000 MHz
	RFBPB2520120A3T	2.50x2.00x1.20	2.4GHZ ISM Band	50 Ohm	Match to DC seriesof Bluetooth chipset	-10 dB	3.50	1.5 dB Max	180°+/-10°	45 @ 900 MHz 25 @ 2170 MHz 35 @ 1900 MHz 30 @ 4800 MHz
	RFBPB2520090A5T	2.50x2.00x0.95	2.4GHZ ISM Band	50 Ohm		-10 dB	3.00	1.5 dB Max	180°+/-10°	40dB @ 880~960/1710~1880 MHz 20dB @ 1880~1990 MHz
	RFBPB2520090A6T	2.50x2.00x0.95	2.4GHZ ISM Band	50 Ohm		-10 dB	3.50	1.5 dB Max	180°+/-10°	30dB @ 4880~5000 MHz
	RFBPB2520090A7T	2.50x2.00x0.90	2.4GHZ ISM Band	50 Ohm		-10 dB	3.50	1.8 dB Max	180°+/-10°	35 @ 880~960 MHz 30 @ 1710~1880 MHz @ 1880~1990/4800~5000 MHz

RF product	Dimension (mm³)	L (nH)	Tolerance	SRF Typical (MHz)	RDC Max (Ohm)
LPF (Low Pass Filter)	2.00x1.25x1.05	2.4GHZ ISM Band	1.50	0.7 dB	30@2x(fo +/- BW/2) 25@3x fo +/- BW/2)

RF	Part Number product	Dimension (mm³)	Application	VSWR	Insertion Los	Impedance	Attenuation
BPF (Band Pass Filter)	RFBPF1608070A0T	1.60x0.80x0.70	2.4GHz ISM Band	2.0	2.5 dB	50 Ohm	30dB @960/4800 MHz 25dB @1910/7200 MHz 20dB @1990 MHz
	RFBPF2012090A1T	2.00x1.20x0.90	2.4GHz ISM Band	2.0	1.7 dB		30dB @960/4800 MHz 20dB @1850 MHz
	RFBPF2012080A7T	2.00x1.20x0.80	2.4GHz ISM Band	2.0	3.0 dB		40dB @DC~1600 MHz 18dB @1600~2000 MHz 30dB @3000~3100 MHz 35dB @4800~5000 MHz 20dB @7200~7500 MHz
	RFBPF2012100A0T	2.00x1.25x0.95	ISM 4.9 / 5.2/ 5.8 Dual Band	2.0	1.7 dB		-30dBi @3450 MHz -20dBi @11000 MHz
	RFBPF2520120A1T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	1.7 dB		30dB @900/1850 MHz 20dB @2100 MHz 40dB @4800 MHz 25dB @7200 MHz
	RFBPF2520120A2T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	2.1 dB		30dB @900/1850/4800 MHz
	RFBPF2520120A3T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	1.2 dB		30dB @900 MHz 30dB @1850 MHz 25dB @4800 MHz
	RFBPF2520120A4T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	1.7 dB		
	RFBPF2520100A5T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	2.0 dB		40dB @DC~1600 MHz 18dB @1600~2000 MHz 35dB @4800~5000 MHz 20dB @7200~7500 MHz 30dB @3000~3100 MHz
	RFBPF2520100A6T	2.50x2.00x1.20	2.4GHz ISM Band	2.0	2.0 dB		30dB @900/1850/4800 MHz
	RFBPF3225150A4T	3.20x2.50x1.50	2.4GHz ISM Band	2.0	2.0 dB		30dB @900 MHz 30dB @1850 MHz
	RFBPF3225150A5T	3.20x2.50x1.50	2.4GHz ISM Band	2.0	2.0 dB		

RF product	Dimension (mm)	Working Voltage Range (V)		Nominal Voltage Range at 1mA (DC) Current (V)		Capacitance(pF)
		Vm (DC)	Vm (AC)	Vn (DC) Min.	Vn (DC) Max.	Max. @ 1MHz
MLV (Chip Varistor)	1.00x0.50x0.50(0402)_VZ	5.5~24.0	4.0~18.0	6.0~22.0	9.6~30.0	1~100@ 1MHz
	1.00x0.50x0.50(0402)_VH	5.0~26.0	4.0~20.0	6.5~27.0	9.5~36.0	54~295@ 1MHz
	1.60x0.80x0.90(0603)_VZ	5.0~24.0	4.0~18.0	6.4~34.2	9.5~41.8	5~100@ 1MHz
	1.60x0.80x0.90(0603)_VZ	5.5~30.0	4.0~24.0	7.1~37.0	9.3~46.0	120~800@ 1MHz
	2.00x1.25x0.80(0805)_VZ	5.5~30.0	4.0~25.0	7.1~37.0	9.3~46.0	310~1600@ 1MHz
	3.20x1.60x0.80(1206)_VZ	5.5~38.0	4.0~30.0	6.4~60.0	9.3~74.0	400~3200@ 1MHz

Remark : "VH" series ar e available upon r equest for high speed application and low capacitance r equir ements; "VZ" series is for normal ESD / Surge pr otection.

RF product	Dimension (mm³)	L (nH)	Tolerance	SRF Typical (MHz)	RDC Max (Ohm)
WL (HF Inductor)	0.60x0.30x0.30 (0201)	1.0~39	+/-0.3nH ; +/-5%	1500~13000	0.12~2.3
	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	0.10~2.5

Walsin's HF pr oducts ar e in accordance with RoHS compliance.