2.45 GHz Harmonic Filter-Balun Optimized for AT86RF230/231 and ATmega128RFA1 P/N 2450FB15L0001

Detail Specification: 11/10/2014 Page 1 of 5

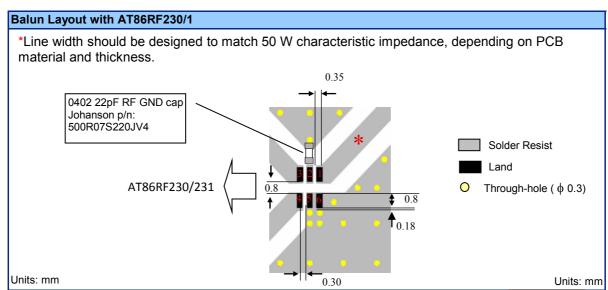
General Specifications						
Part Number	2450FB15L0001	Differential Mode Attenuation	20 min.@ 4800~5000MHz			
Frequency (MHz)	2400~2500	(dB)	20 min.@ 7200~7500MHz			
Unbalanced Impedance	50 Ω	Common Mode Attenuation	20 min.@ 4800~5000MHz			
Balanced Impedance	Impedance match to AT86RF230/231 and ATmega128RFA1	(dB)				
		Operating Temperature	-40°C to +125°C			
Insertion Loss	1.5 dB max.	Storage Conditions	+5 to +35°C, Humidity: 45-			
Return Loss	9.5 dB min.	Storage Conditions	75%RH, 18 mos. Max			
Phase Difference	180° ± 10	Input Power	2 Watts max. (CW)			
Amplitude Difference	2.0 dB max.	Reel Quantity	4,000			

W

^{* 18} months in vacuum sealed bag and 1 week after opened. For more info go to www.johansontechnology.com/silverleads

Mechanical Dimensions					
	ln	mm			
L	0.079 ± 0.004	2.00 ± 0.10			
W	0.049 ± 0.004	1.25 ± 0.10	▎ <mark>▗</mark> ▃▗▃▗ <mark>▀</mark> ▗╄↓		
Т	0.031 ± 0.004	0.80 ± 0.10	←		
а	0.012 ± 0.004	0.30 ± 0.10	l a, p,		
b	0.008 ± 0.004	0.20 ± 0.10	a p		
С	0.012 +.004/008	0.30 +0.1/-0.2	│		
g	0.014 ± 0.004	0.35 ± 0.10			
р	0.026 ± 0.002	0.65 ± 0.05	lagi, → lagi		
	*				

Terminal Configuration					
No.	Function	No.	Function		
1	Unbalanced Port	4	Balanced Port		
2	DC Feed + RF GND	5	GND		
3	Balanced Port	6	GND		
3 2 1					



Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.

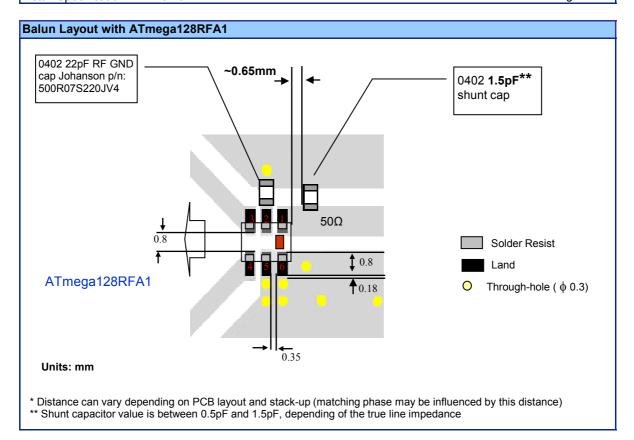


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4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

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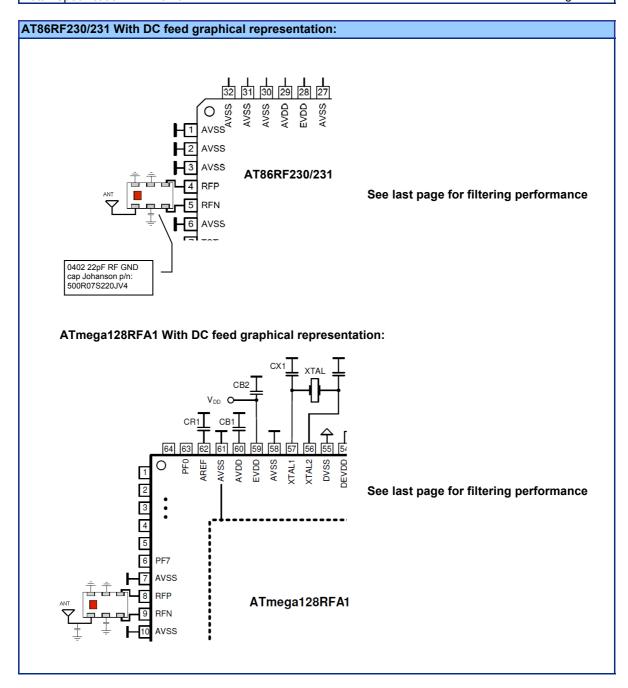
Part Numbering Scheme

P/N	Packaging	Bulk	Suffix = S	Eg. 2450FB15L0001S
	Style	T&R	Suffix = E	Eg. 2450FB15L0001E
	Termination Style	AgPt	Suffix = None	Eg. 2450FB15L0001(E or S)
	Evaluation Board	2450FB15L0001-EB1SMA		



2.45 GHz Harmonic Filter-Balun Optimized for AT86RF230/231 and ATmega128RFA1 P/N 2450FB15L0001

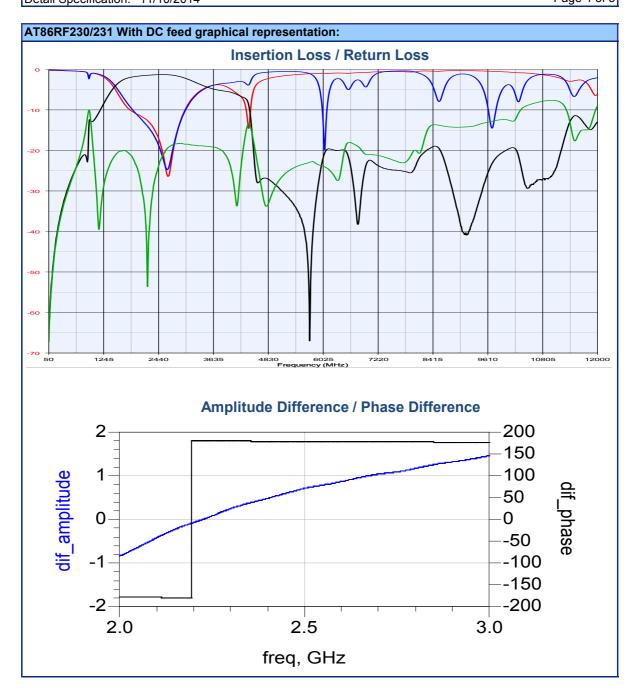
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2.45 GHz Harmonic Filter-Balun Optimized for AT86RF230/231 and ATmega128RFA1 P/N 2450FB15L0001

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2.45 GHz Harmonic Filter-Balun Optimized for AT86RF230/231 and ATmega128RFA1 P/N 2450FB15L0001

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RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices

Pad metalization information

www.johansontechnology.com/silverleads

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommneded Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

Application Notes, Layout Files, and more

www.johansontechnology.com/atmel

