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

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

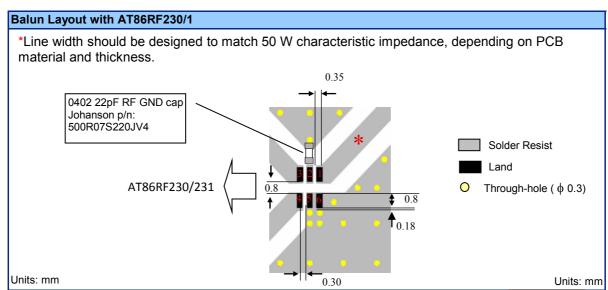
| General Specifications | | | | | | |
|------------------------|--|-------------------------------|----------------------------|--|--|--|
| Part Number | 2450FB15L0001 | Differential Mode Attenuation | 20 min.@ 4800~5000MHz | | | |
| Frequency (MHz) | 2400~2500 | (dB) | 20 min.@ 7200~7500MHz | | | |
| 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.

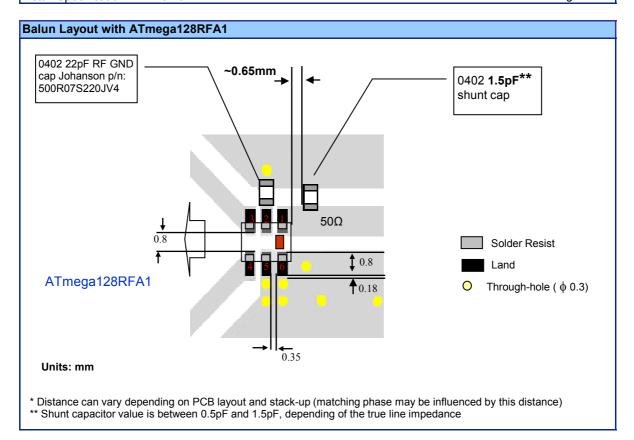


www.johansontechnology.com

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

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

Detail Specification: 11/10/2014 Page 2 of 5



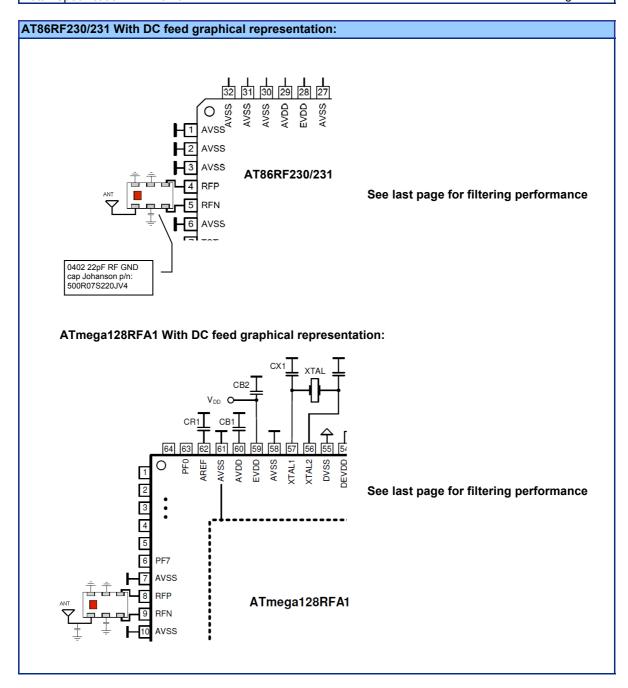
Part Numbering Scheme

| 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

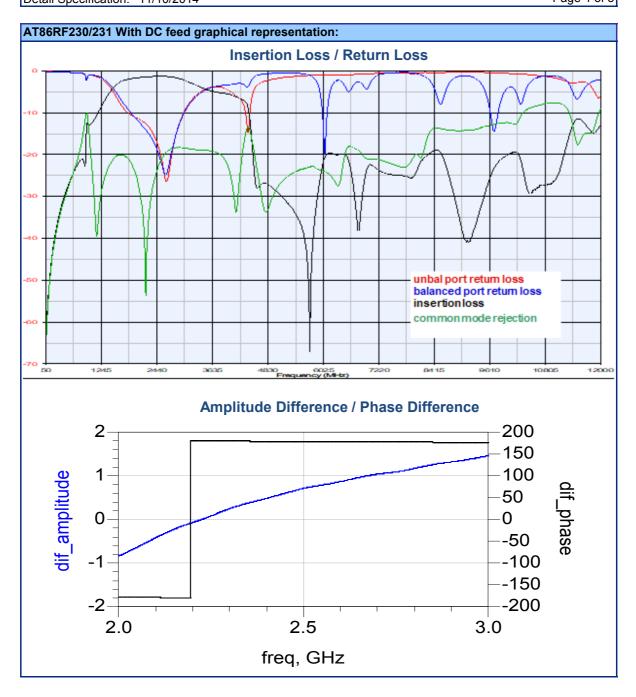
Detail Specification: 11/10/2014 Page 3 of 5





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

Detail Specification: 11/10/2014 Page 4 of 5





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

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

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

