

"High Frequency Ceramic Solutions"

910 MHz Directional Coupler/ Low Pass Filter Combination

P/N 0910CF15A0100

Detail Specification: 5/31/2017

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General Specifications

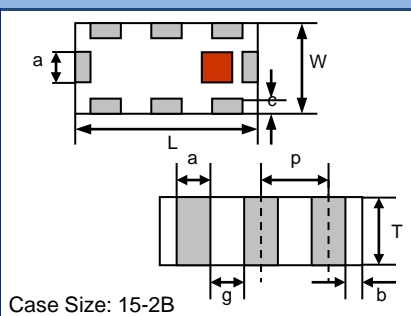
| | | | |
|--------------------|----------------|----------------------------|--------------|
| Part Number | 0910CF15A0100 | Insertion Loss | 1 dB max. |
| Frequency (MHz) | 860 - 960 | Return Loss | 20 dB min. |
| Attenuation (min.) | 30 dB @ 2 x Fo | Coupling | 13 ± 1 dB |
| Attenuation (min.) | 30 dB @ 3 x Fo | Isolation | 30 dB min. |
| Attenuation (min.) | 30 dB @ 4 x Fo | Impedance | 50 Ω |
| Attenuation (min.) | 30 dB @ 5 x Fo | Operating and Storage Temp | -40 to +85°C |
| Input Power | 3W max. | Reel Quantity | 4000 |

Part Number Explanation

| | | | | |
|------------|-------------------|------------|-----------------|-------------------------------|
| P/N Suffix | Packing Style | Bulk | Suffix = S | e.g. 0910CF15A0100S |
| | | T & R | Suffix = E | e.g. 0910CF15A0100E |
| | Termination Style | 100% Tin | Suffix = None | e.g. 0910CF15A0100(E or S) |
| | | Tin / Lead | Suffix = E or S | e.g. 0910CF15A0100(E or S)/Pb |

Mechanical Dimensions

| | In | mm |
|---|---------------------|----------------|
| L | 0.079 ± 0.004 | 2.00 ± 0.10 |
| W | 0.049 ± 0.004 | 1.25 ± 0.10 |
| T | 0.027 ± 0.004 | 0.70 ± 0.10 |
| a | 0.012 ± 0.004 | 0.30 ± 0.10 |
| b | 0.008 ± 0.004 | 0.20 ± 0.10 |
| c | 0.012 +0.004/-0.008 | 0.30 +0.1/-0.2 |
| g | 0.014 ± 0.004 | 0.35 ± 0.10 |
| p | 0.026 ± 0.002 | 0.65 ± 0.05 |

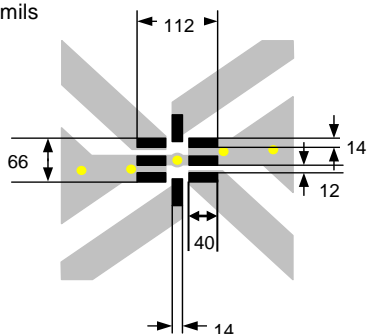


Terminal Configuration

| No. | Function | No. | Function |
|-----|-------------|-----|-------------|
| 1 | Termination | 5 | Coupled Out |
| 2 | GND | 6 | GND |
| 3 | GND | 7 | GND |
| 4 | Input | 8 | Output |

Mounting Considerations

Mount these devices with brown mark facing up.
Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness
Units: mils



- Solder Resist
- Land
- Through-hole (12 mil diameter)

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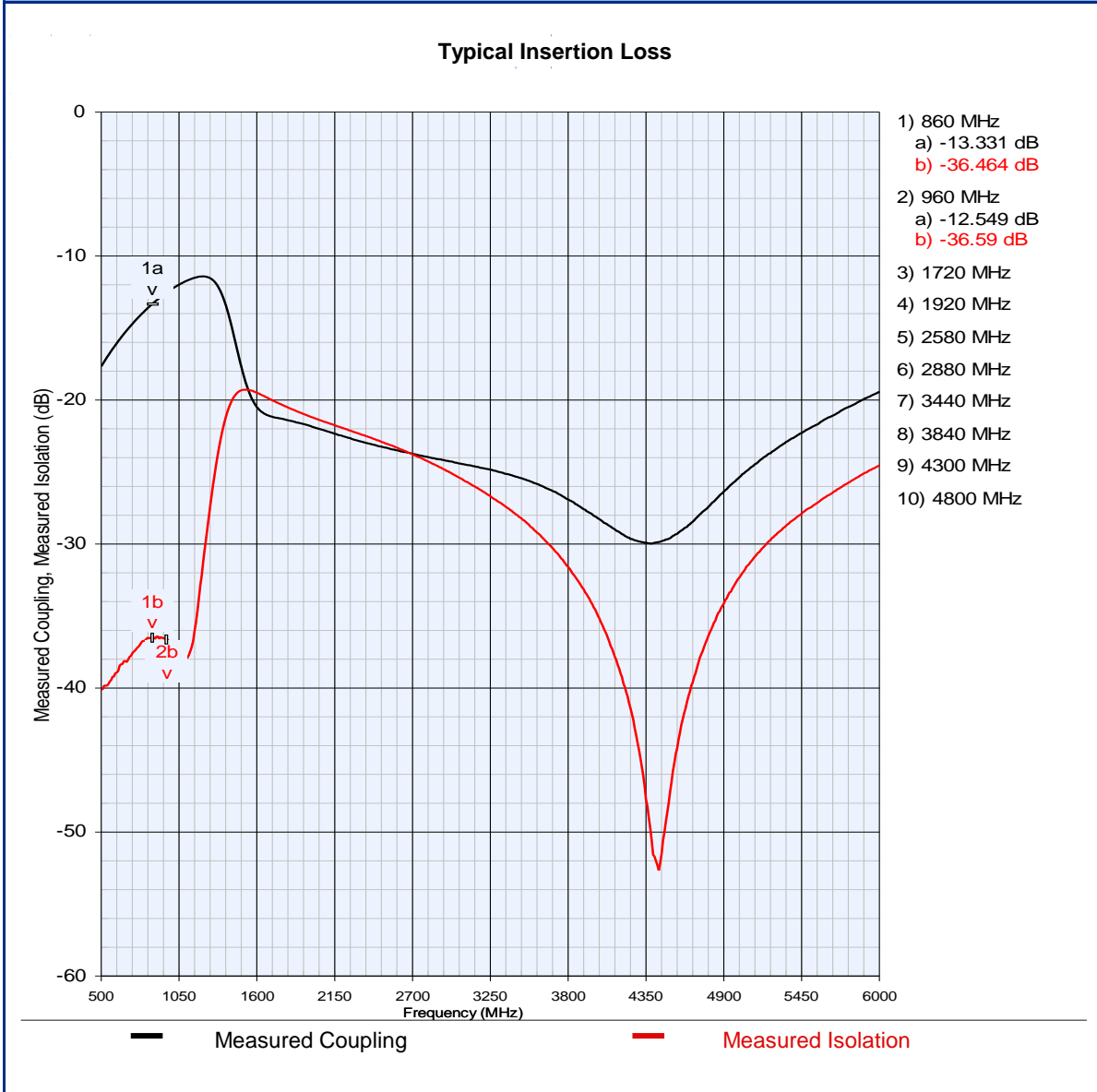
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Typical Electrical Performance (T=25°C)



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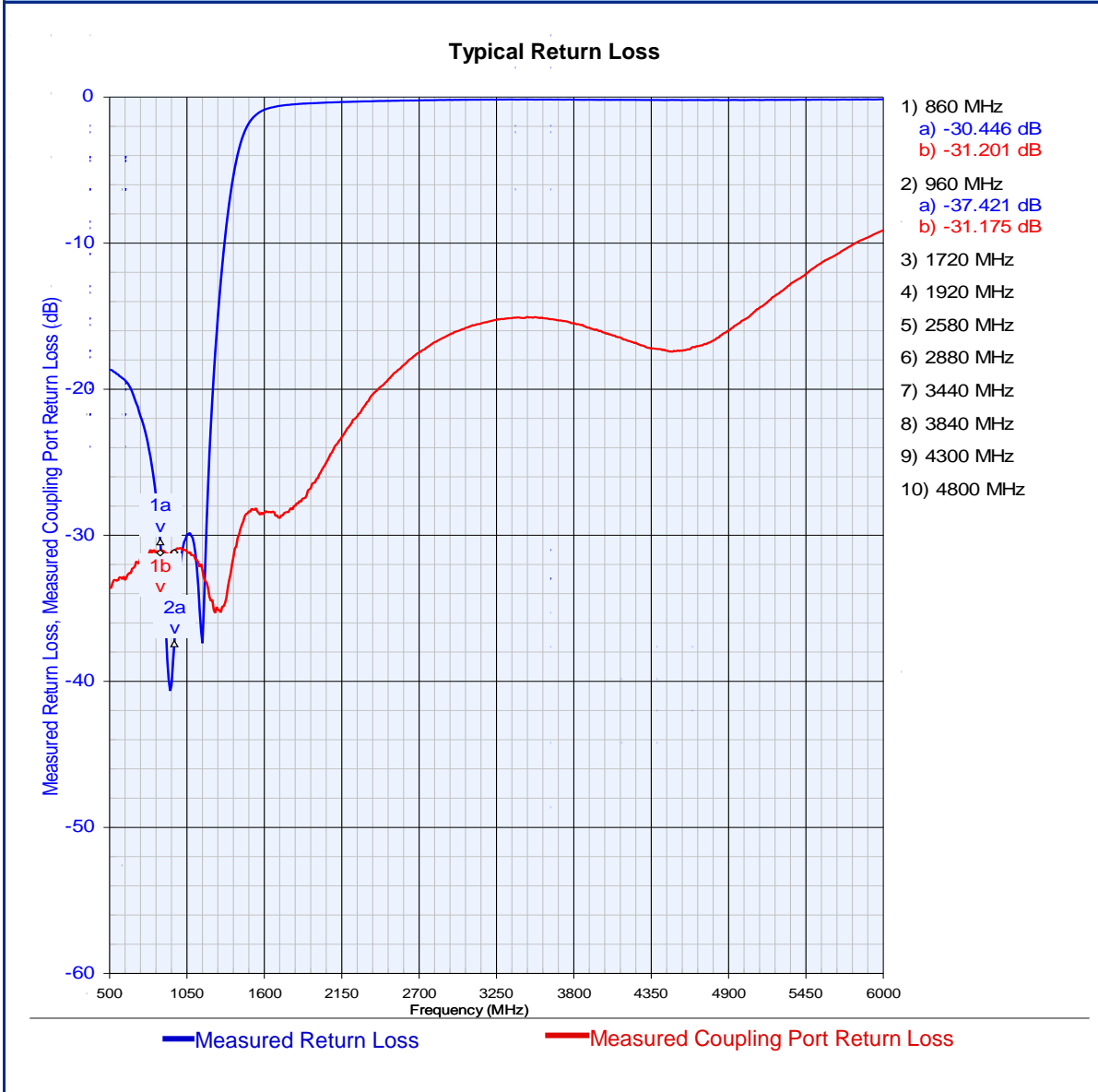
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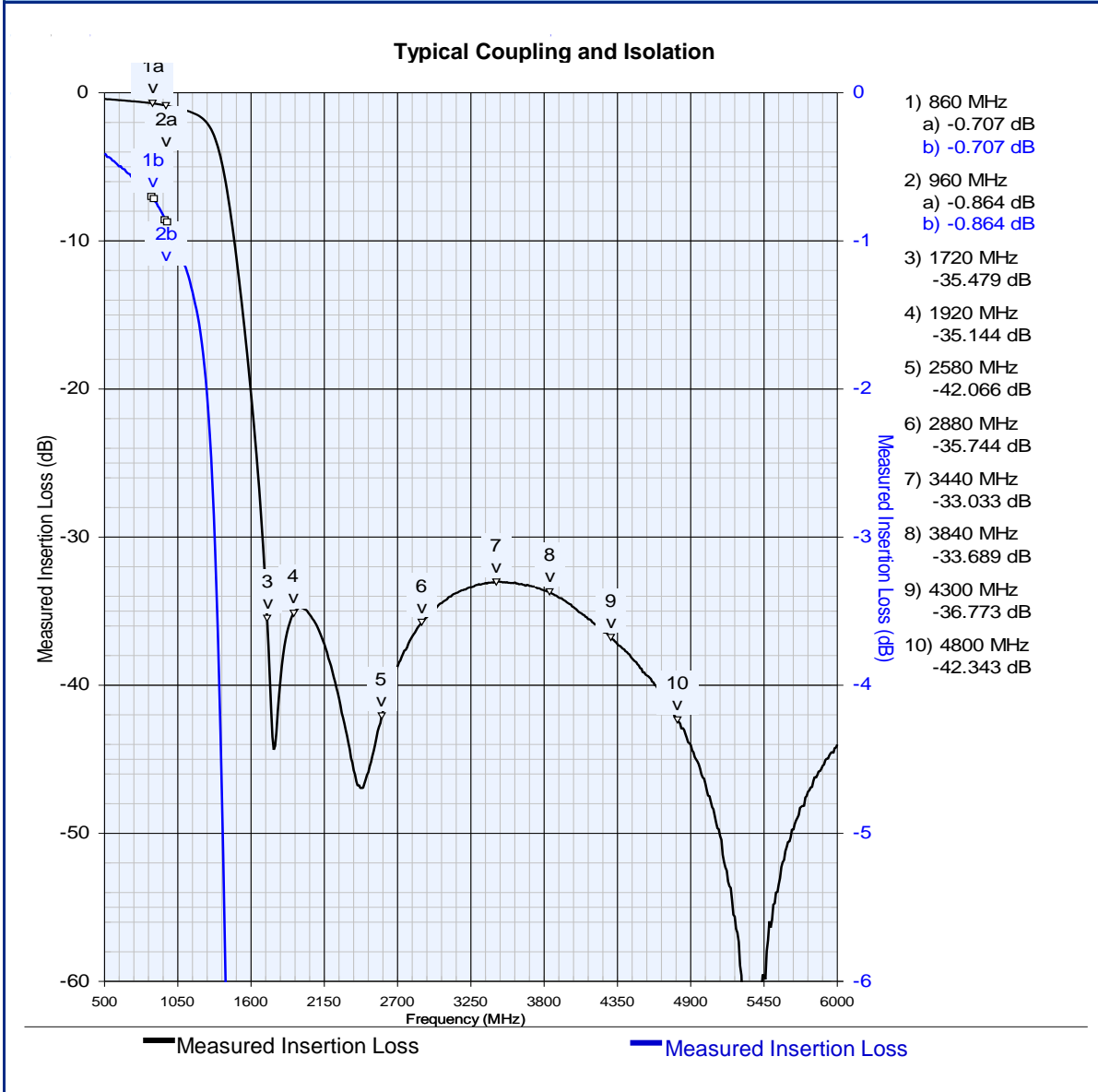
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RoHS Compliance

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Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Power Capacity

www.johansontechnology.com/ask-a-question

MSL Info

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Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/recommended-storage-conditions

Antenna layout and tuning techniques

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Antenna layout review, tuning, and characterization services

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