

"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

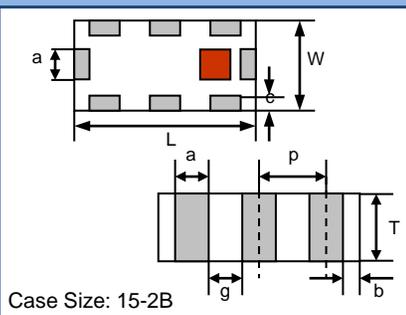
Part Number	0910CF15A0100	Insertion Loss	1 dB max.
Frequency (MHz)	860 - 960	Return Loss	20 dB min.
Attenuation (min.)	30 dB @ 2 x Fo	Coupling	13 ± 1 dB
Attenuation (min.)	30 dB @ 3 x Fo	Isolation	30 dB min.
Attenuation (min.)	30 dB @ 4 x Fo	Impedance	50 Ω
Attenuation (min.)	30 dB @ 5 x Fo	Operating 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 +.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

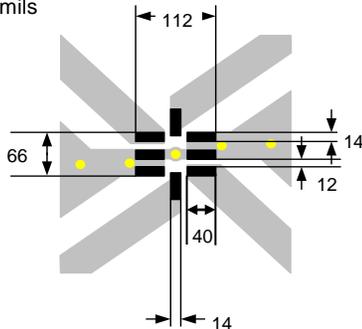


Terminal Configuration

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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www.johansontechnology.com

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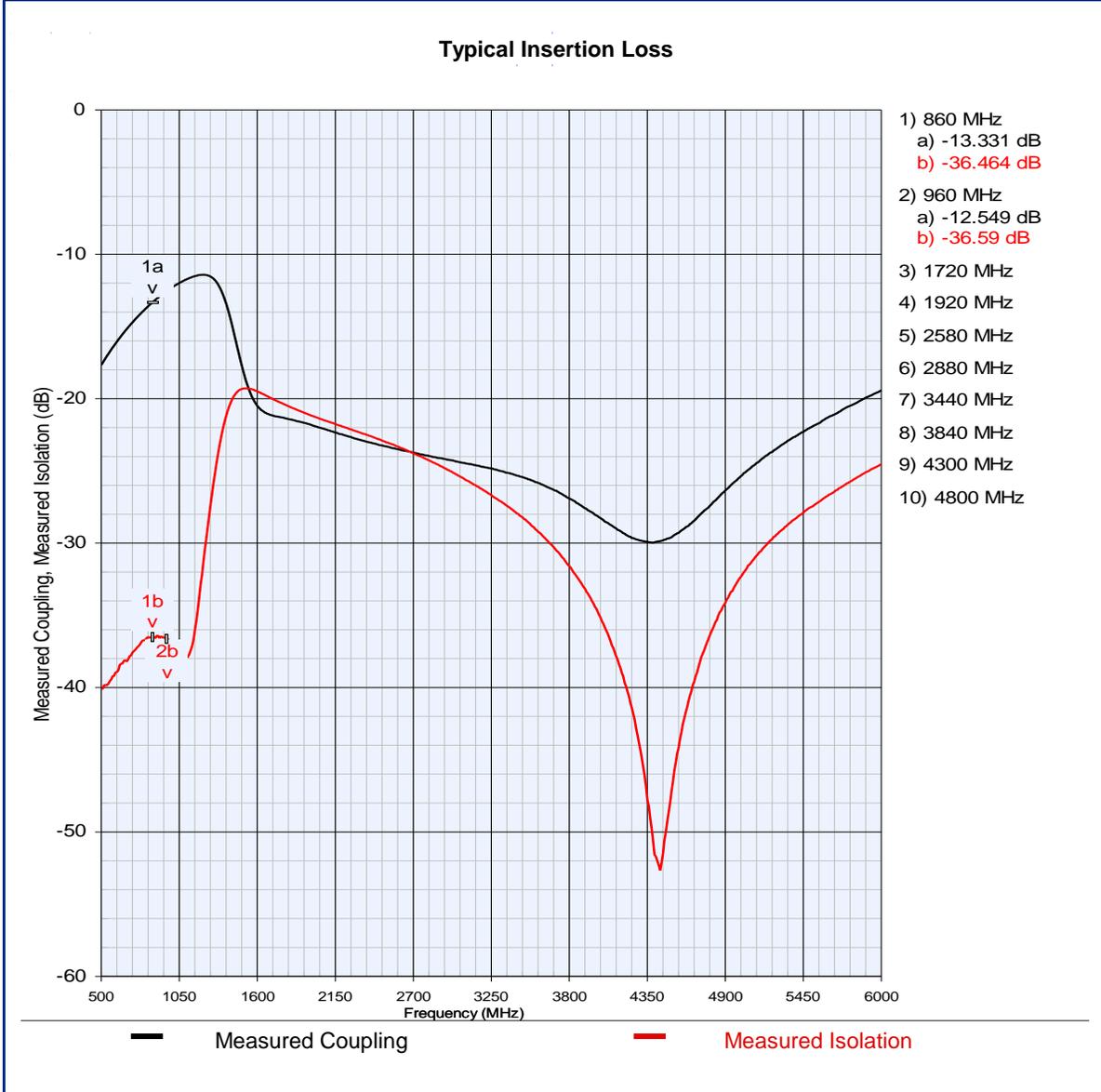
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Typical Electrical Performance (T=25°C)



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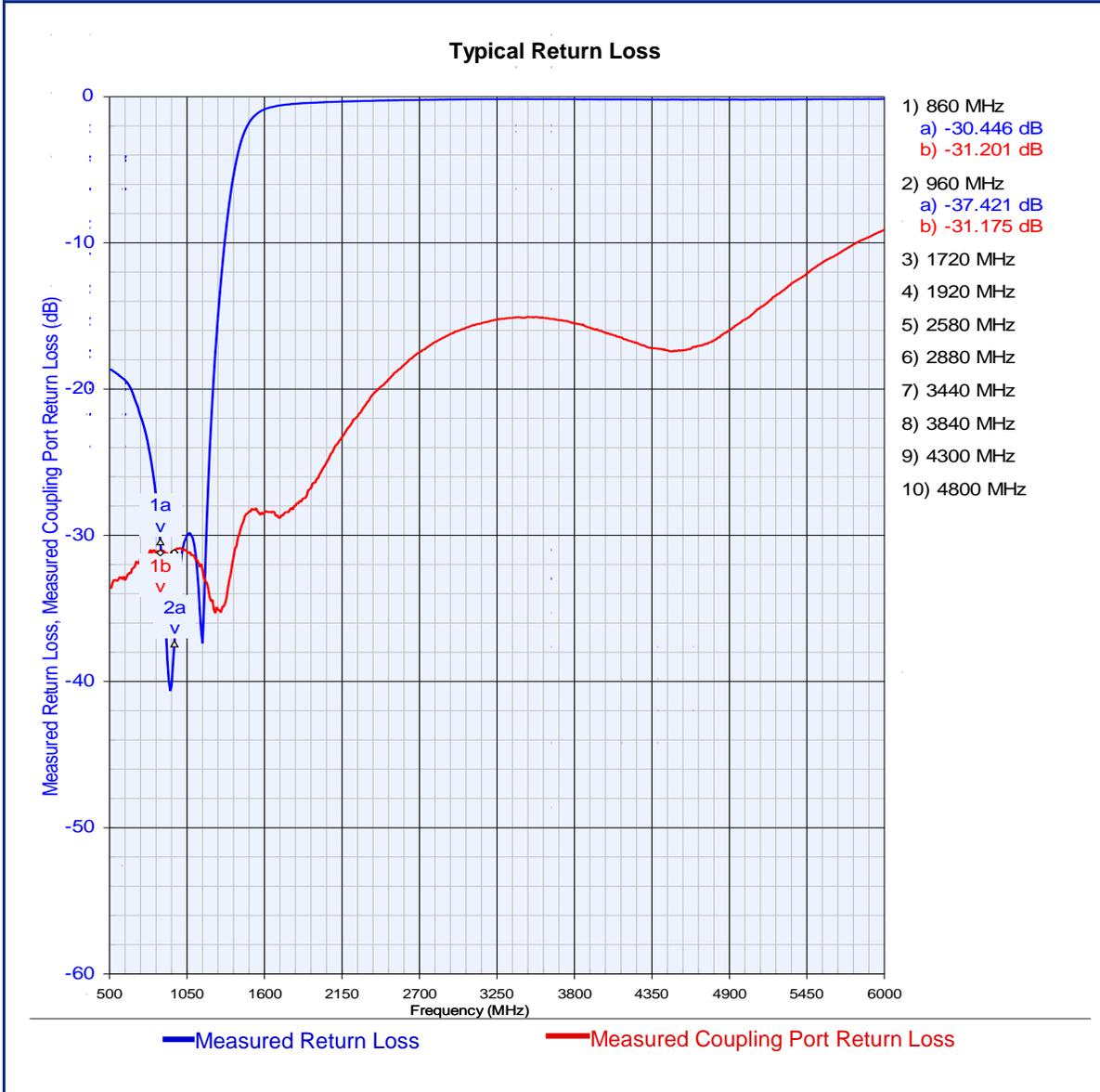
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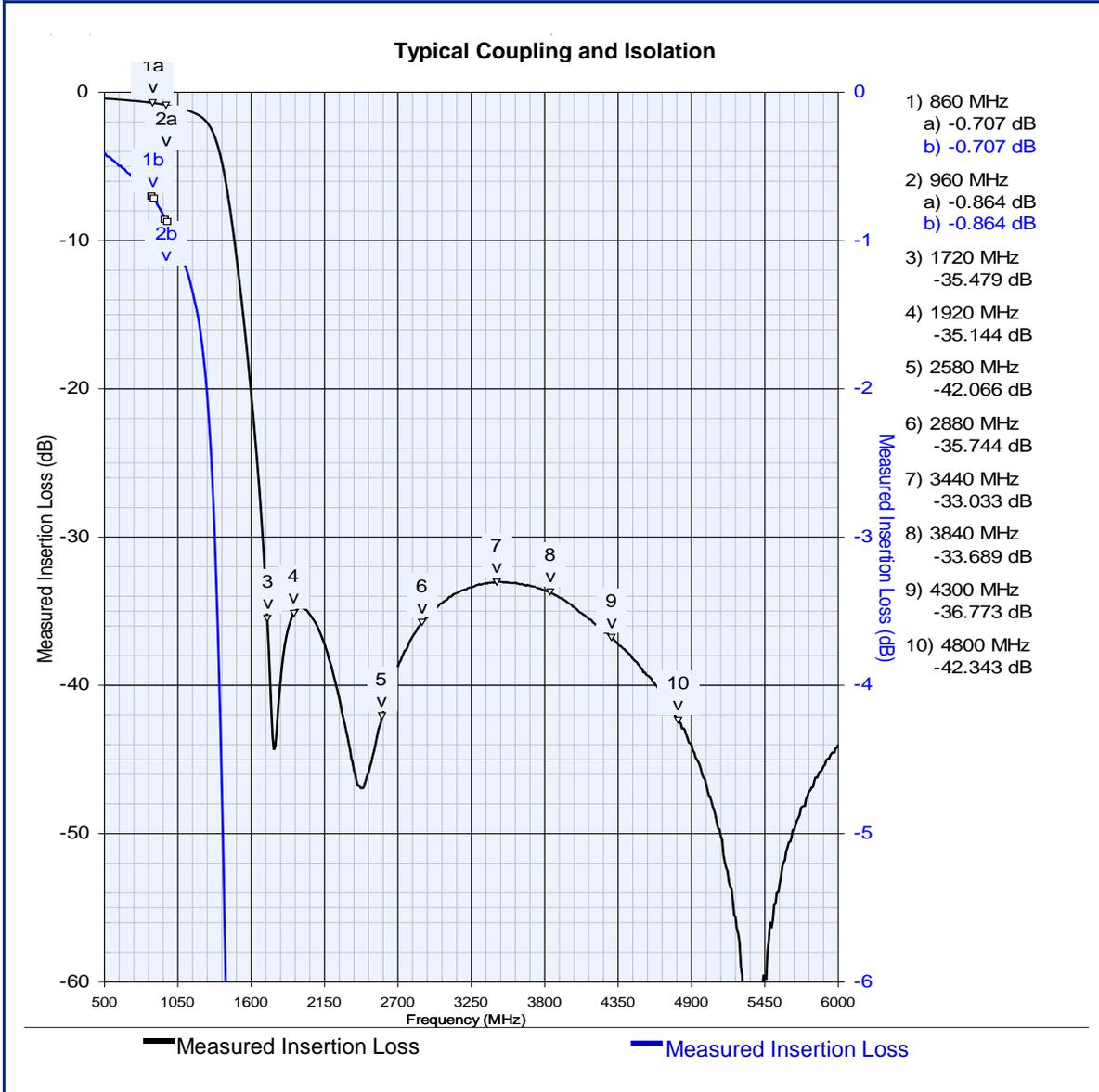
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RoHS Compliance

www.johansontechnology.com/rohs-compliance

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

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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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