

# "High Frequency Ceramic Solutions"

## 898/1748 MHz Dual Band Directional Coupler

P/N 0898CD15D1748

Detail Specification: 10/01/03

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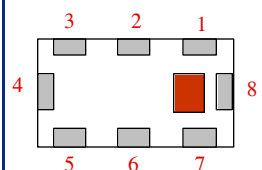
### General Specifications

<b>Part Number</b>	0898CD15D1748	
	<b>Band 1</b>	<b>Band 2</b>
<b>Frequency (MHz)</b>	1710 - 1785	880- 915
<b>Insertion Loss @ BW</b>	0.50 dB max.	0.35 dB max.
<b>Coupling</b>	14 ± 1.5 dB	19 ± 1.0 dB
<b>Isolation</b>	Band 1(IN) --> Band2(OUT)	25.5 dB min.
	Band 1(IN) --> Band2(IN)	21.0 dB min.
	Band 1(OUT) --> Band2(IN)	22.0 dB min.
	Band 1(IN) --> Terminated	17.0 dB min.
	Band 2(IN) --> Terminated	24.0 dB min.
<b>VSWR</b>	Band1/Band2(IN/OUT)	1.5 max.
	Terminated/Coupled Outputs	1.8 max.

<b>Power Capacity Band 1</b>	1.5 Watts max.
<b>Power Capacity Band 2</b>	3.2 Watts max.
<b>Impedance</b>	50 Ω
<b>Operating &amp; Storage Temp.</b>	-40 to +85°C
<b>Reel Quantity</b>	4,000

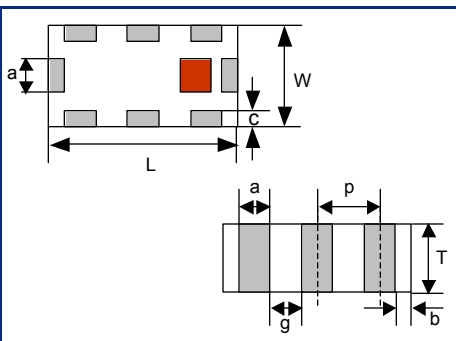
### Terminal Configuration

No.	Function
1	Band 1 IN (Port1)
2	GND
3	Band 2 IN (Port 3)
4	Termination (Port 6)
5	Band 2 OUT (Port 4)
6	GND
7	Band 1 OUT (Port 2)
8	Coupling OUT (Port 5)



### Mechanical Dimensions

	In	mm
<b>L</b>	0.079 ± 0.004	2.00 ± 0.10
<b>W</b>	0.049 ± 0.004	1.25 ± 0.10
<b>T</b>	0.033 ± 0.004	0.85 ± 0.10
<b>a</b>	0.012 ± 0.004	0.30 ± 0.10
<b>b</b>	0.008 ± 0.004	0.20 ± 0.10
<b>c</b>	0.012 +.004/-0.008	0.30 +0.1/-0.2
<b>g</b>	0.014 ± 0.004	0.35 ± 0.10
<b>p</b>	0.026 ± 0.002	0.65 ± 0.05

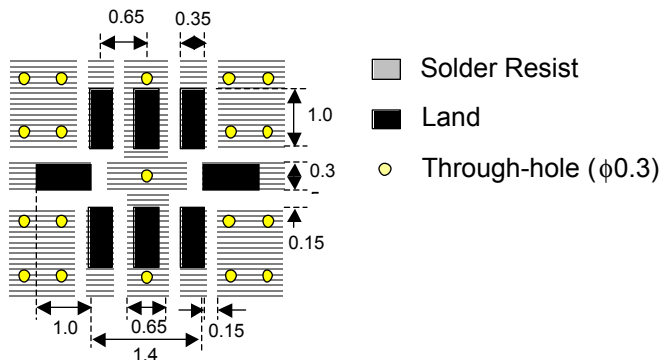


### Mounting Considerations

Mount these devices with brown mark facing up.

Line width should provide 50Ω impedance matching characteristics.

Units: mm



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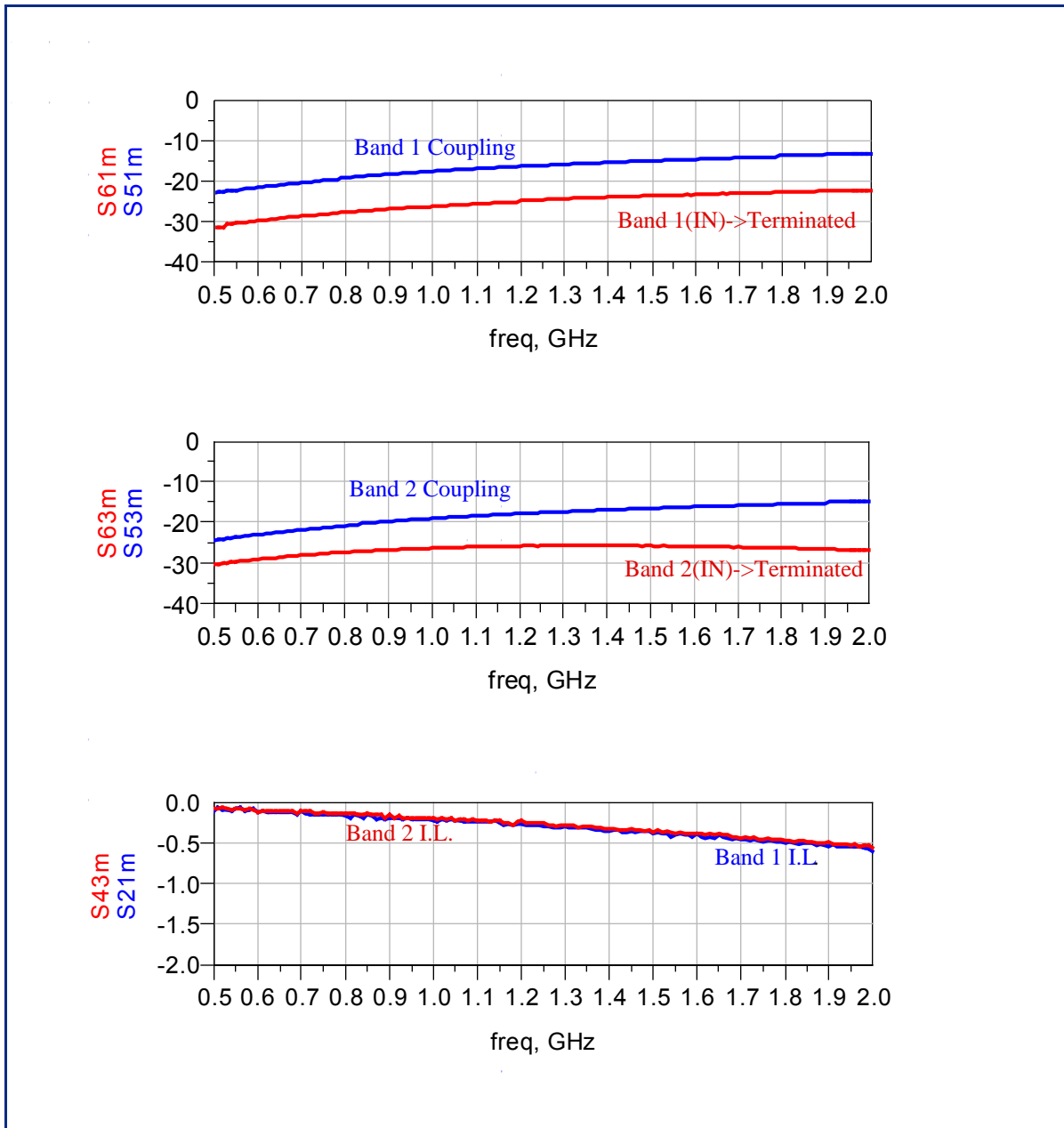
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## Typical Electrical Characteristics (T=25°C)



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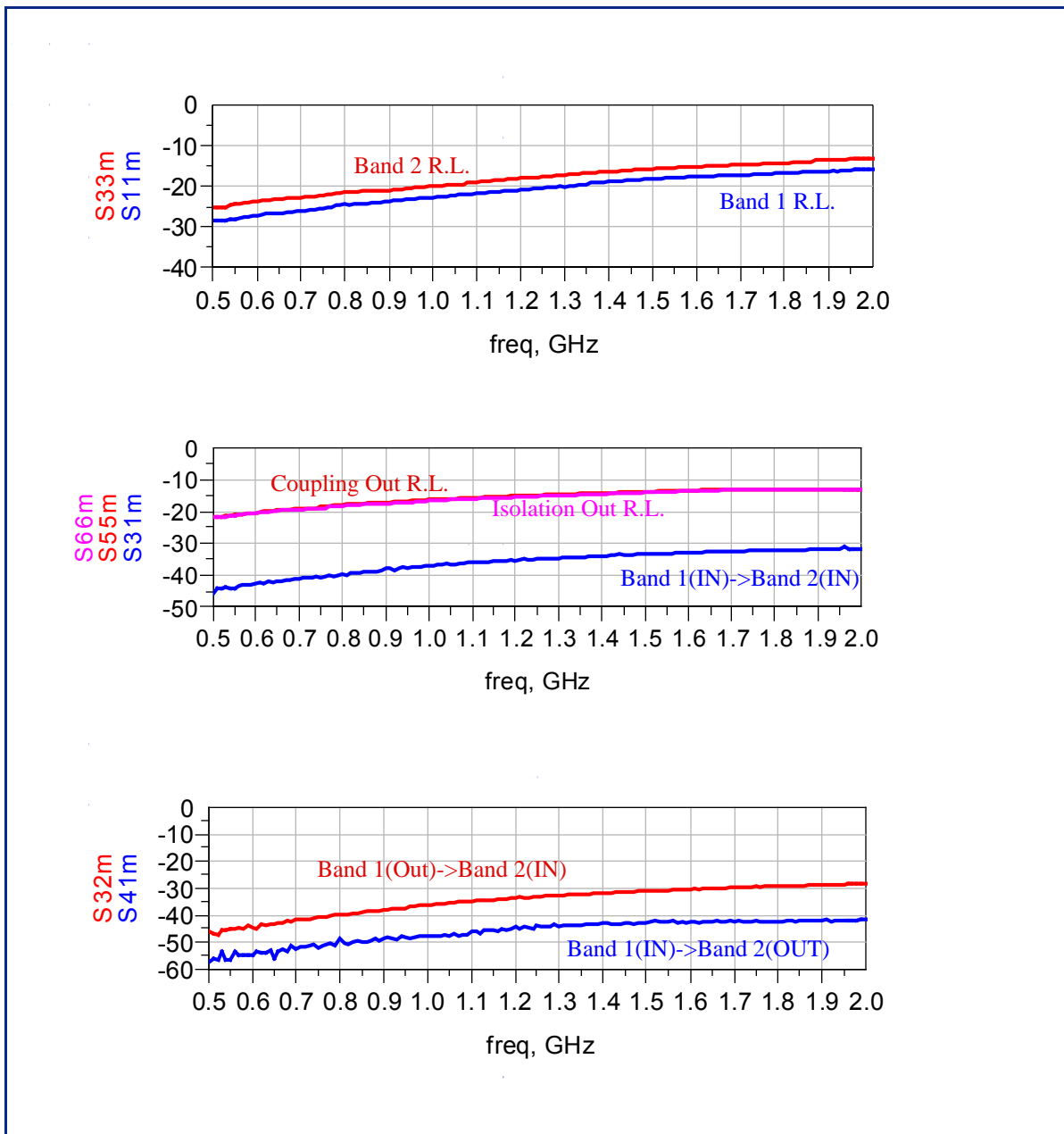
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