

"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

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

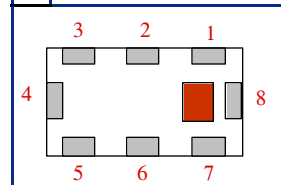
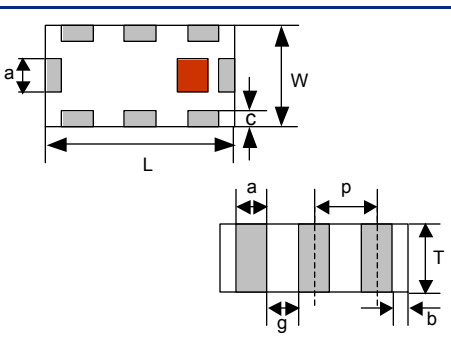
Power Capacity Band 1	1.5 Watts max.
Power Capacity Band 2	3.2 Watts max.
Impedance	50 Ω
Operating & Storage Temp.	-40 to +85°C
Reel Quantity	4,000

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
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.033 ± 0.004	0.85 ± 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

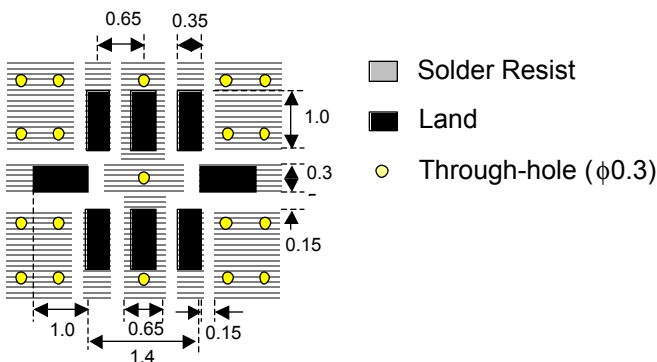


Mounting Considerations

Mount these devices with brown mark facing up.

Line width should provide 50Ω impedance matching characteristics.

Units: mm



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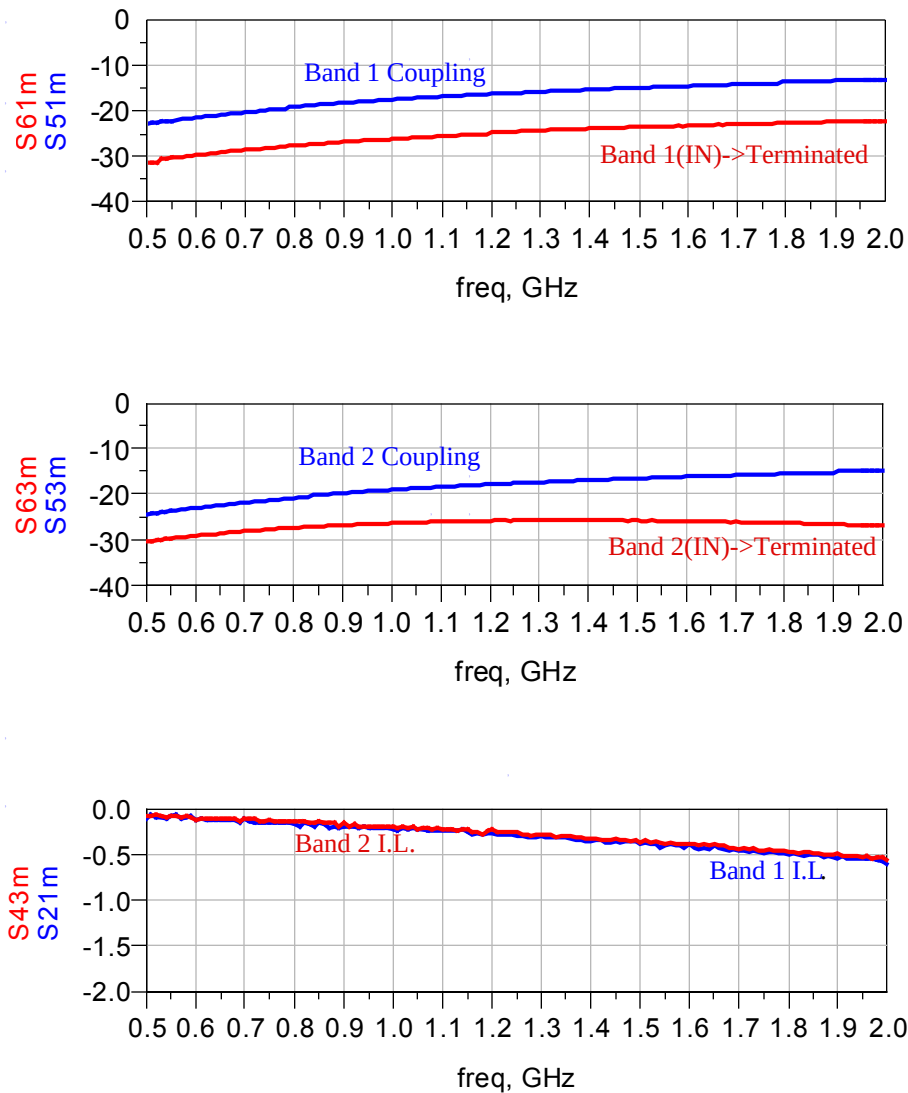
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Typical Electrical Characteristics (T=25°C)



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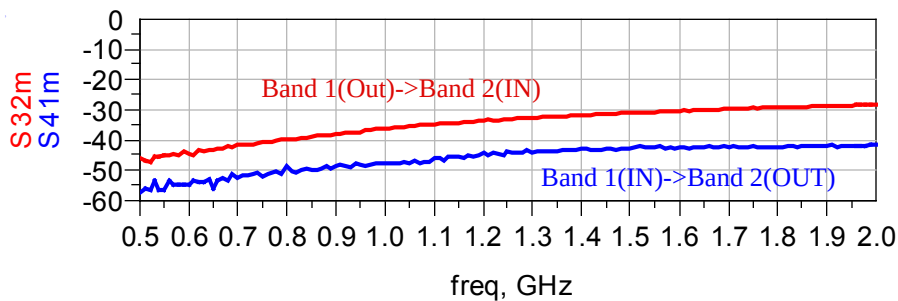
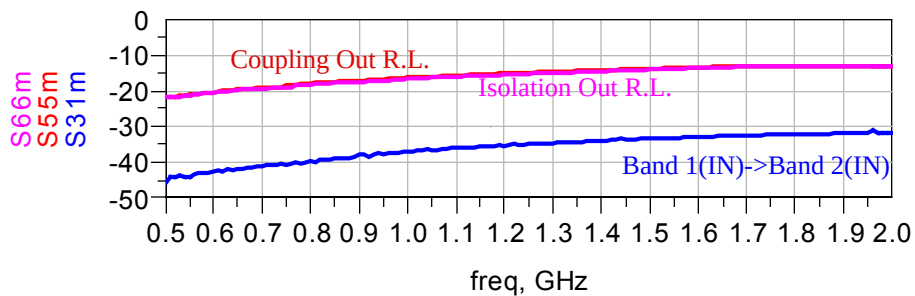
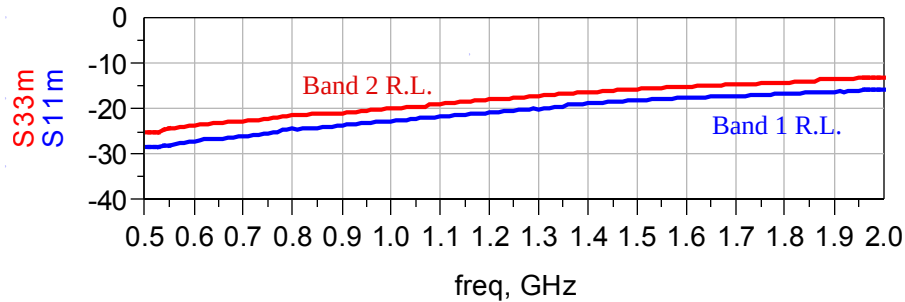
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