

"High Frequency Ceramic Solutions"

870 / 1050 MHz Directional Coupler, Dual Band, Single Path

P/N 0869CP14B1050

Detail Specification 06/17/03

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General Specifications

Part Number	0869CP14B1050	
	Band 1	Band 2
Frequency (MHz)	824- 915	999 - 1102
Insertion Loss @ BW	0.40 dB max.	0.60 dB max.
Coupling	14.2 ± 1.0 dB	12.7 ± 1.0 dB
Isolation	23.0 dB min.	22.0 dB min.

Power Capacity Band 1	3 Watts max.
Power Capacity Band 2	3 Watts max.
Impedance	50 ohms
Operating Temperature	-40 to +85°C
Reel Quantity	4,000

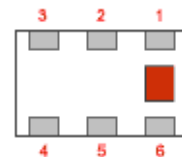
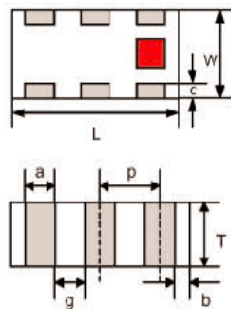
VSWR	Band1/Band2(IN/OUT)	1.4 max.
	Terminated/Coupled Outputs	1.4 max.

Terminal Configuration

No.	Function
1	IN
2	GND
3	Coupled Out
4	Termination
5	GND
6	Main Out

Mechanical Dimensions

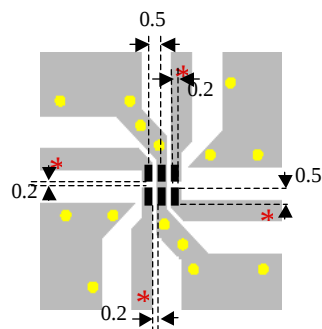
	In	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.024 ± 0.004	0.60 ± 0.10
a	0.008 ± 0.004	0.20 ± 0.10
b	0.008 +.004/-.006	0.20 +0.1/-0.15
c	0.006 ± 0.004	0.15 ± 0.10
g	0.012 ± 0.004	0.30 ± 0.10
p	0.020 ± 0.002	0.50 ± 0.05



Mounting Considerations

Mount these devices with brown mark facing up. Line width should provide 50ohm impedance matching characteristics.

Units: mm



- Solder
- Land
- Through-hole (φ 0.3)

* Line width should be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

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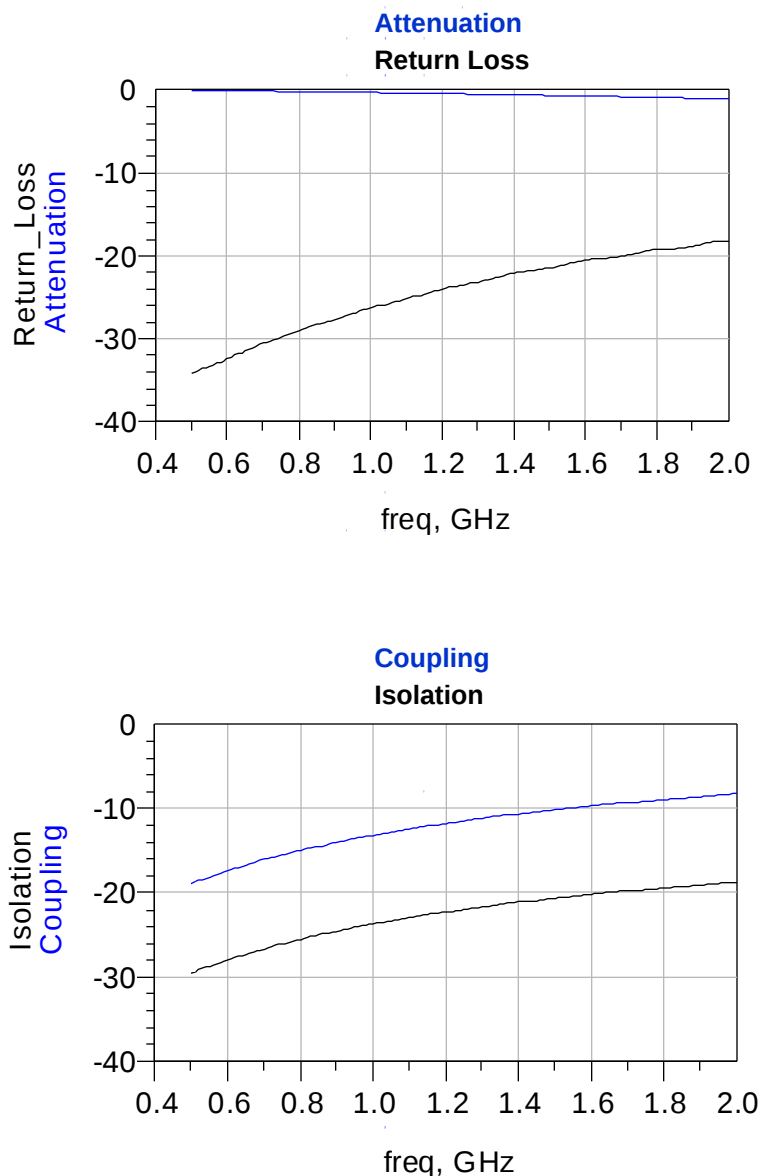
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Typical Electrical Characteristics (T=25°C)



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