

PRELIMINARY

870/1810 MHz Dual Band Directional Coupler

P/N 0869CD14A1810

Detail Specification: 04/28/06

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General Specifications

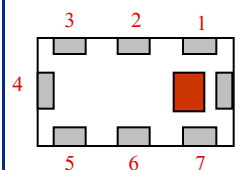
Part Number	0869CD14A1810	
	Band 1	Band 2
Frequency (MHz)	824 - 915	1710 - 1910
Insertion Loss @ BW	0.40 dB max.	0.40 dB max.
Coupling	19.5 ± 1.0 dB	19.5 ± 1.0 dB
VSWR	1.5 dB max.	1.5 dB max.
Isolation	Band 1(IN) --> Terminated	30.0 dB min.
	Band 2(IN) --> Terminated	30.0 dB min.

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

P/N	Packaging Style	Bulk	Suffix = S	Eg. 0869CD14A1810S
		T & R	Suffix = E	Eg. 0869CD14A1810E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 0869CD14A1810(E or S)
		Tin / Lead	Please Contact Factory	

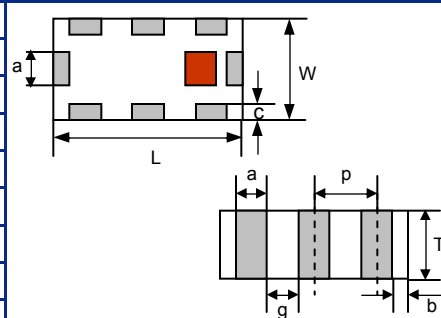
Terminal Configuration

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



Mechanical Dimensions

	In	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.016 ± 0.004	0.40 ± 0.10
a	0.008 ± 0.004	0.20 ± 0.10
b	0.008 +.004/-0.006	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



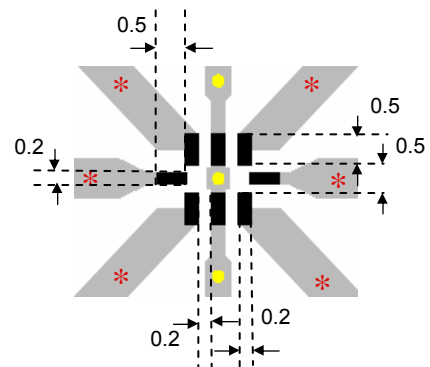
Mounting Considerations

Mount these devices with brown mark facing up.

Line width should provide 50 Ω impedance matching characteristics.

Units: mm

- Solder Resist
- Land
- Through-hole (φ0.2)



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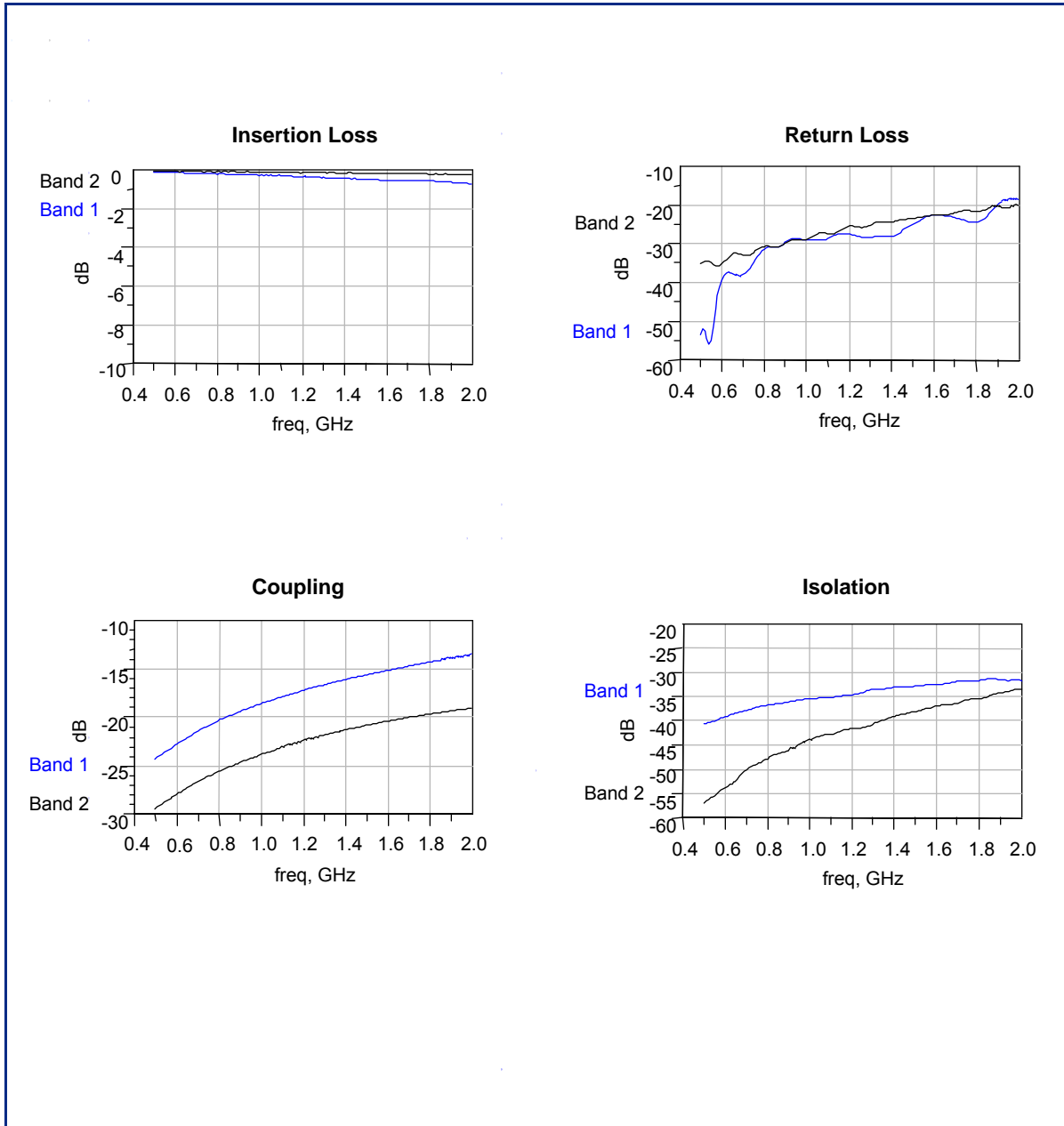
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Typical Electrical Characteristics (T=25°C)



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