

"High Frequency Ceramic Solutions"

Preliminary

870/1810 MHz Dual Band Directional Coupler

P/N 0869CD14B1810

Detail Specification: 07/21/09

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General Specifications

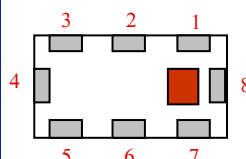
Part Number	0869CD14B1810	
	Band 1	Band 2
Frequency (MHz)	824 - 915	1710 - 1910
Insertion Loss @ BW	0.40 dB max.	0.40 dB max.
Coupling	19.5 ± 1.0 dB	19.5 ± 1.0 dB
Return Loss	14 dB min.	14 dB min.
Isolation	Band 1(IN) --> Terminated	30 dB min.
	Band 2(IN) --> Terminated	30 dB min.

Power Capacity	2 Watts max.
Impedance	50 Ω
Reel Quantity	4,000
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Humidity 45-75%RH
Storage Period	12 months max

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 0869CD14B1810S
		T & R	Suffix = E	Eg. 0869CD14B1810E
	Termination Style	100% Tin	Suffix = None	Eg. 0869CD14B1810(E or S)
		Tin / Lead	Please consult Factory	

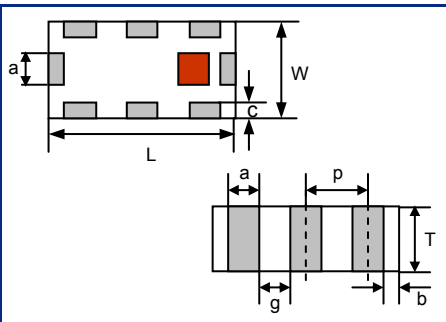
Terminal Configuration

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



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






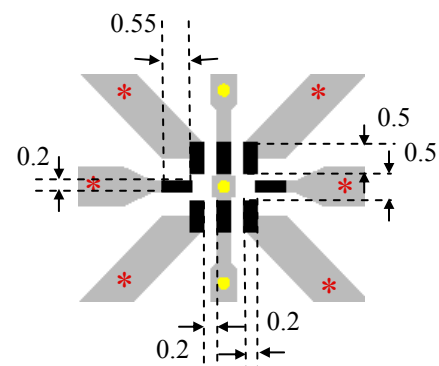
Mounting Considerations

Mount these devices with brown mark facing up.

Line width should provide 50 Ω impedance matching characteristics.

Units: mm

-  Solder Resist
-  Land
-  Through-hole (φ 0.2)



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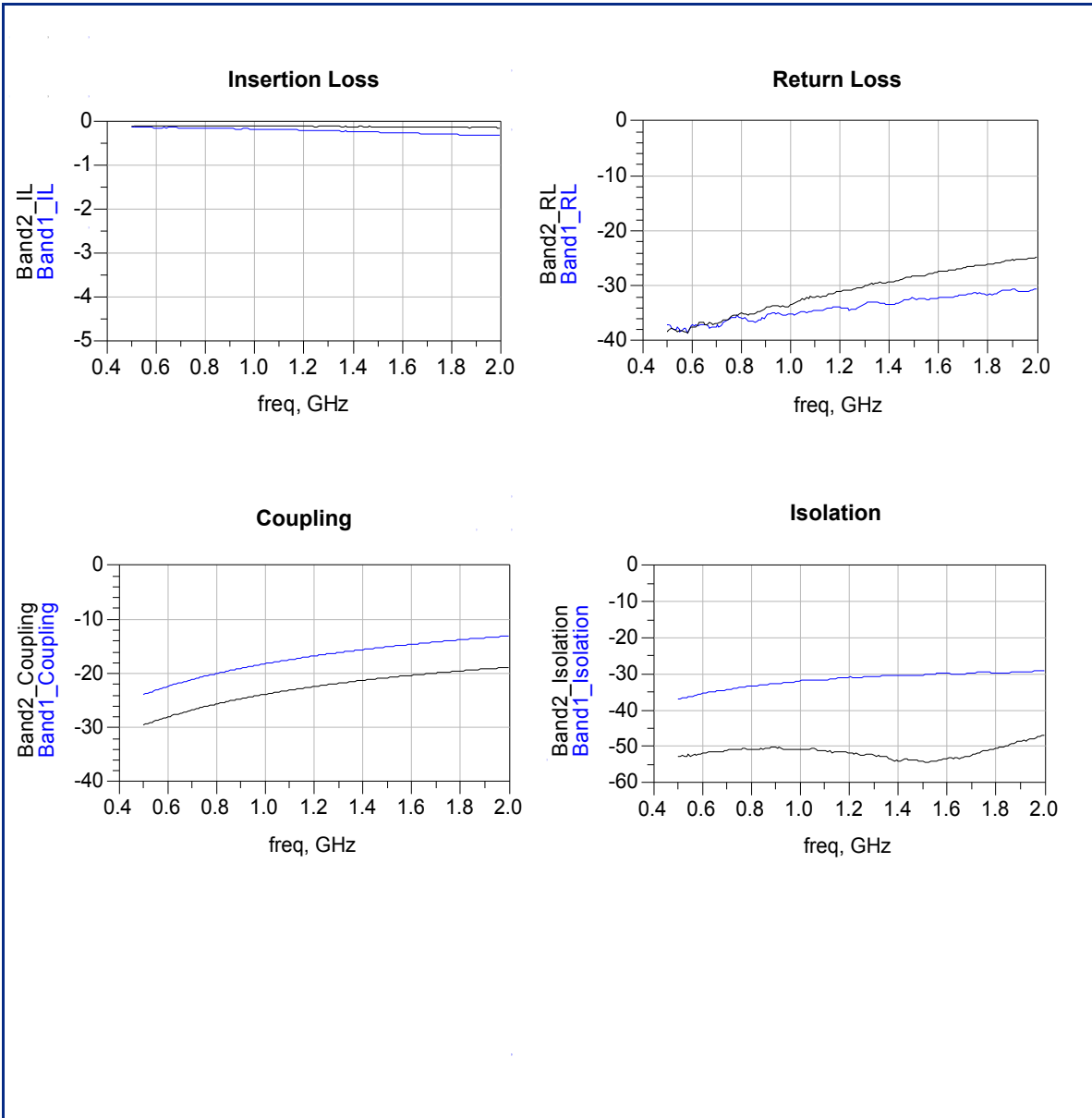


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Typical Electrical Characteristics (T=25°C)



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