

"High Frequency Ceramic Solutions"

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

P/N 0869CP14B1050

Detail Specification 06/17/03

Page 1 of 2

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

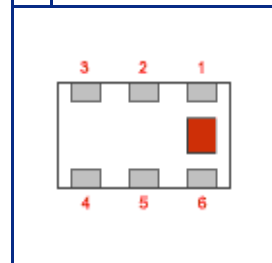
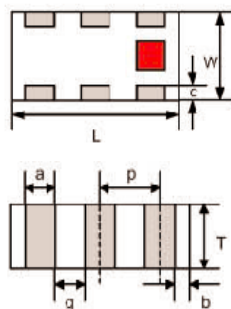
VSWR	Band1/Band2(IN/OUT)	1.4 max.
	Terminated/Coupled Outputs	1.4 max.

Terminal Configuration

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

Mechanical Dimensions

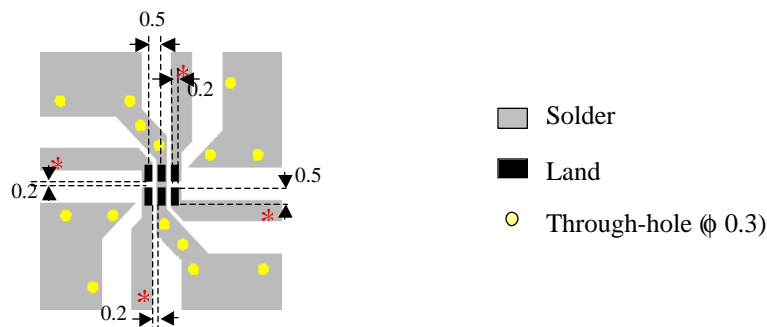
	In	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.024 ± 0.004	0.60 ± 0.10
a	0.008 ± 0.004	0.20 ± 0.10
b	0.008 +.004/-.006	0.20 +0.1/-0.15
c	0.006 ± 0.004	0.15 ± 0.10
g	0.012 ± 0.004	0.30 ± 0.10
p	0.020 ± 0.002	0.50 ± 0.05



Mounting Considerations

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

Units: mm



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

Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

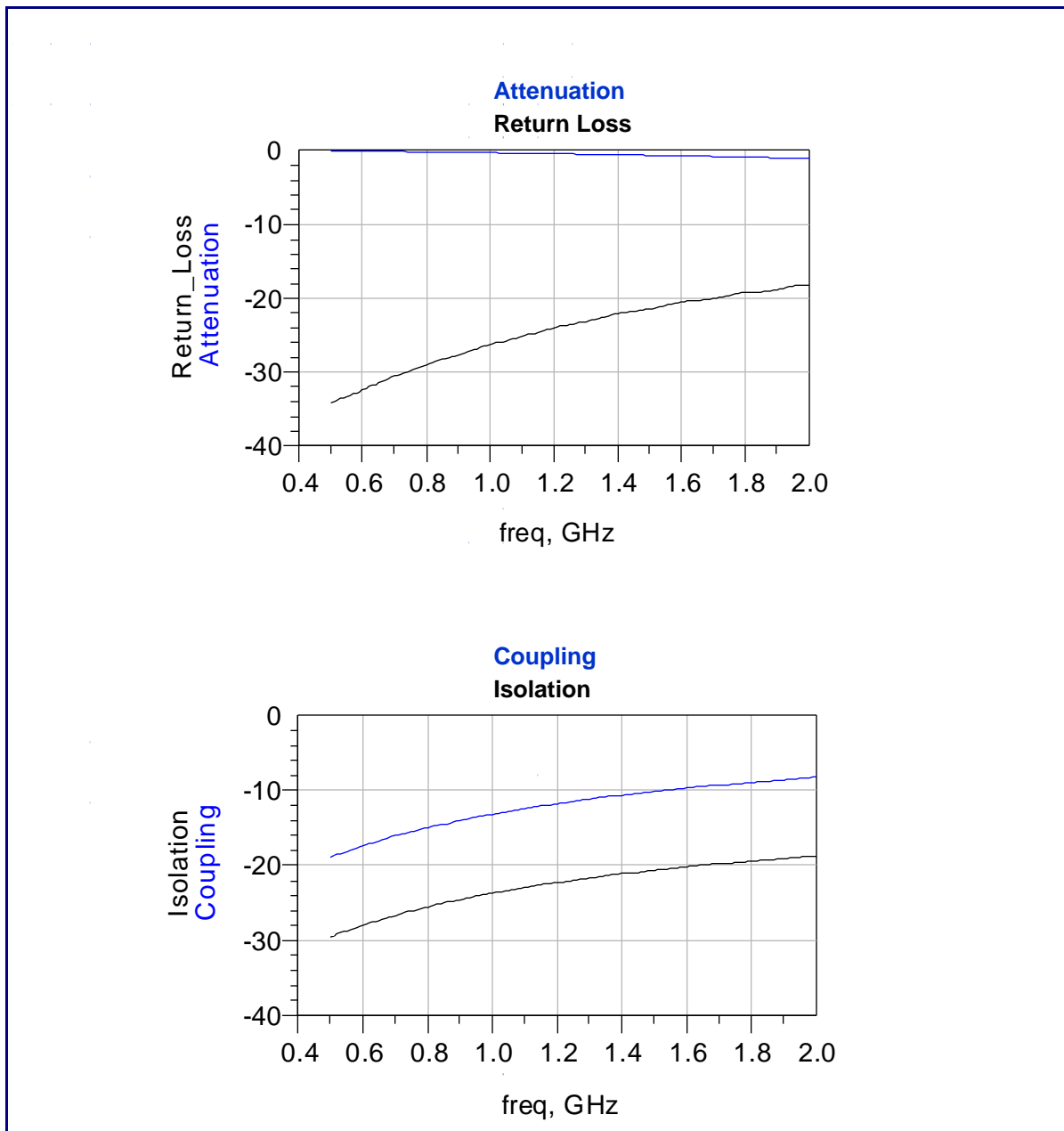
870 / 1050 MHz Directional Coupler, Dual Band, Single Path

P/N 0869CP14B1050

Detail Specification 06/17/03

Page 2 of 2

Typical Electrical Characteristics (T=25°C)



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved