

"High Frequency Ceramic Solutions"

1748 MHz Directional Coupler

P/N 1748CP15A075

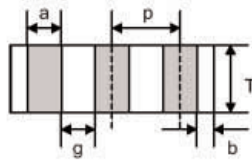
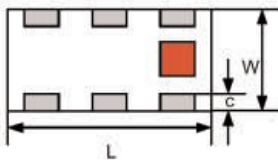
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Part Number	Frequency (MHz)	Insertion Loss	Return Loss	Coupling	Isolation
1748CP15A075_	1710 - 1785	0.5 dB max	14 dB min.	20 ± 1.0 dB	25.0 dB min.

Input Power	Impedance	Operating Temperature Range	Reel Qty
3 Watts max	50 Ω	-40 to +85°C	4000

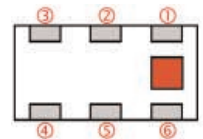
Mechanical Dimensions

	L	W	T	a	b	c	g	p
Inches	0.079 ± .004	0.049 ± .004	0.034 ± .004	0.012 ± .004	0.008 ± .004	0.012 ± .004/-0.008	0.014 ± .004	0.026 ± .002
mm	2.0 ± 0.1	1.25 ± 0.1	0.85 ± 0.1	0.30 ± 0.1	0.20 ± 0.1	0.30 ± 0.1/-0.2	0.35 ± 0.1	0.65 ± 0.05



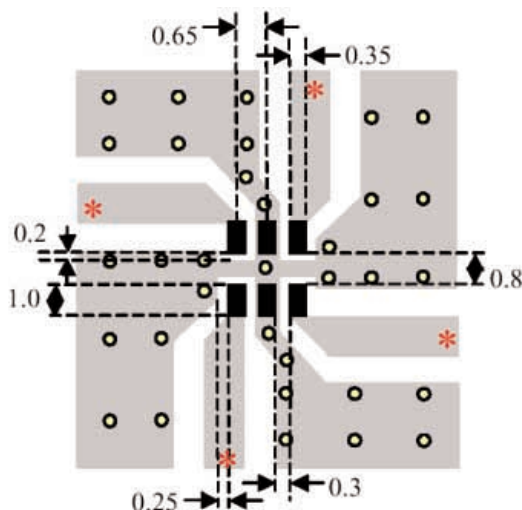
Terminal Configuration

1	IN	4	Termination
2	GND	5	GND
3	Main Out	6	Coupled Out



Mounting Considerations

Mount these devices with brown colored side facing up. Line width should be designed to provide 50Ω impedance matching characteristics.



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

Johanson Technology, Inc. reserves the right to make design changes without notice.
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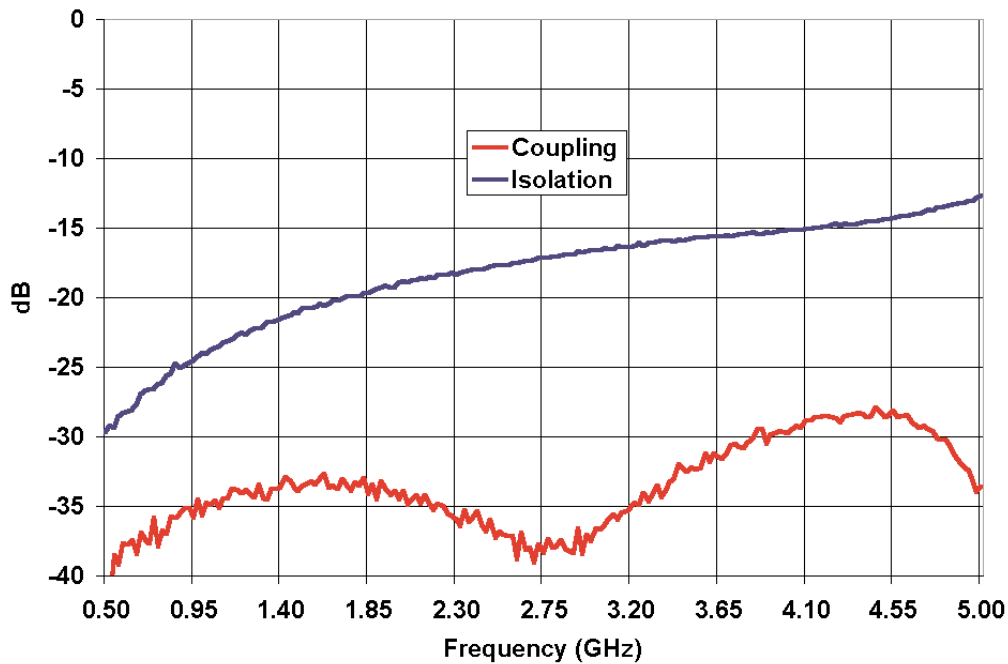
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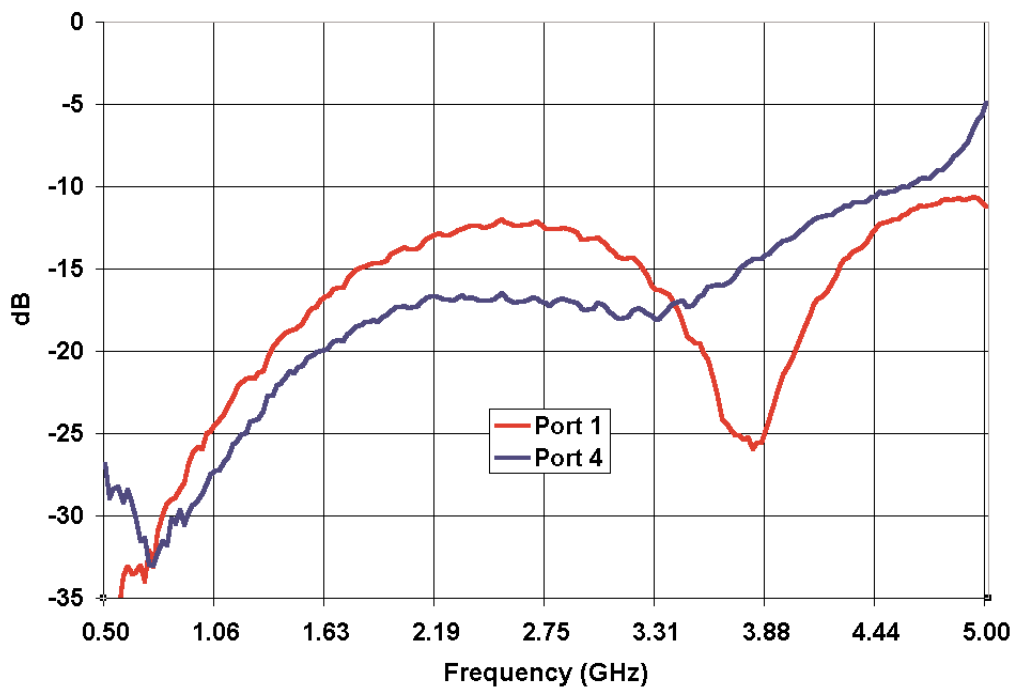
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P/N 1748CP15A075 Coupler
Typical Coupling and Isolation



P/N 1748CP15A075 Coupler
Typical Return Loss



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**P/N 1748CP15A075 Coupler
Typical Insertion Loss**

