

# PRELIMINARY

## 2450 MHz Directional Coupler

**P/N 2450CP14B100**

Detail Specification: 01/11/06

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### General Specifications

<b>Part Number</b>	2450CP14B100
<b>Frequency (MHz)</b>	2400 - 2500
<b>Insertion Loss</b>	0.34 dB max.
<b>Return Loss</b>	15.6 dB min.
<b>Coupling</b>	17.65 ± 1.0 dB
<b>Isolation</b>	25.0 dB min.

<b>Impedance</b>	50 Ω
<b>Input Power</b>	3 Watt max.
<b>Operating Temperature</b>	-40 to +85°C
<b>Storage Temperature</b>	-40 to +85°C
<b>Reel Quantity</b>	4,000

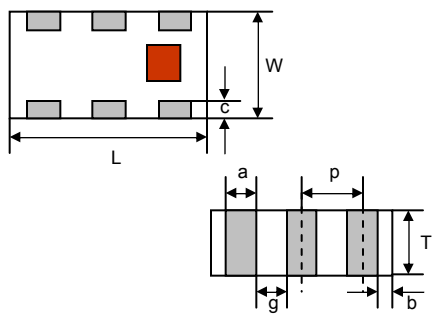
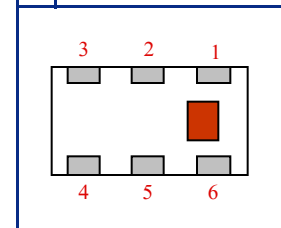
<b>P/N Suffix</b>	<b>Packaging Style</b>	Bulk	Suffix = S	Eg. 2450CP14B100S
	<b>Style</b>	T & R	Suffix = E	Eg. 2450CP14B100E
	<b>Termination Style</b>	100% Tin	Suffix = None	Eg. 2450CP14B100(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 2450CP14B100(E or S)/Pb

### Terminal Configuration

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

### Mechanical Dimensions

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

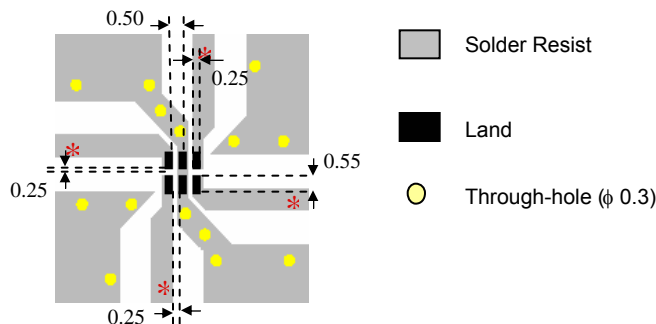



### Mounting Considerations

Mount these devices with brown mark facing up.

\* Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness

Units: mm



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[www.johansontechology.com](http://www.johansontechology.com)

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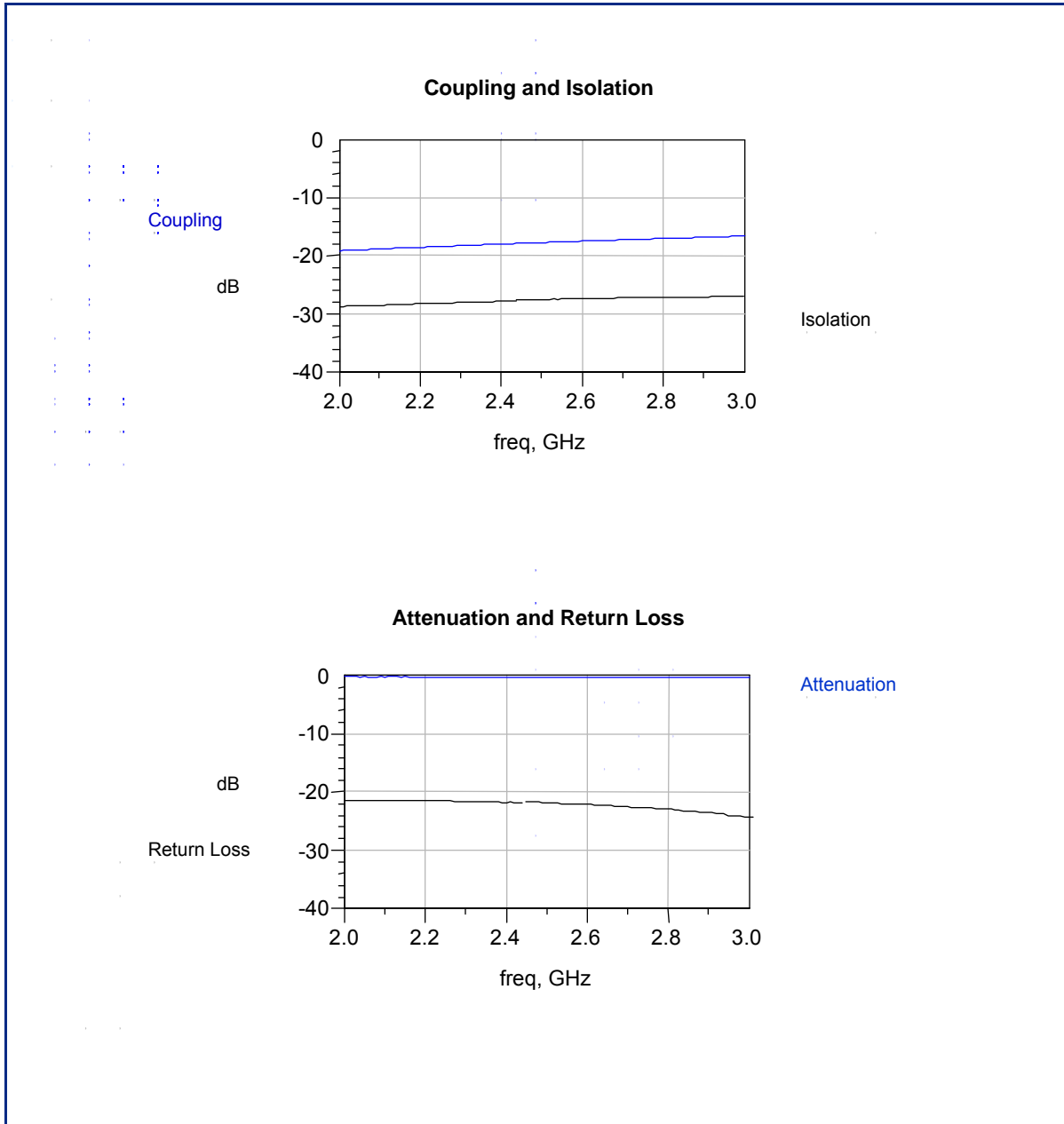
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## Typical Electrical Performance (T=25°C)



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