

"High Frequency Ceramic Solutions"

2.4/5GHz Dual Band Mini RF Coupler. EIA 0202

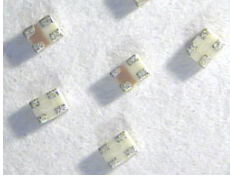
P/N 2450CP05A5400

Detail Specification: 7/6/2015

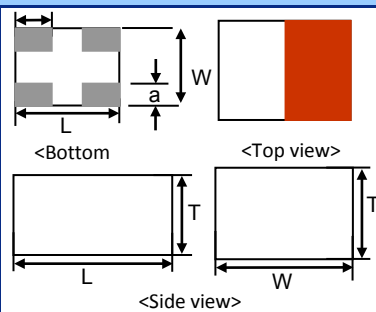
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General Specifications

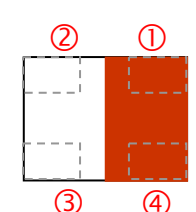
Part Number	2450CP05A5400			
Freq. Range (MHz)	2400 ~ 2500	4900 ~ 5850		
Insertion Loss (dB)	0.5 max.	0.5 max.		
VSWR	1.3 max.	1.3 max.		
Coupling	19 ± 1.5	12.5 ± 1.5		
Directivity	15 min.		Operating Temp Range	-40 to +85 °C
Qty/Reel	10,000 pcs		Storage Period	12 months max.
Storage Temp Range	+5 ~ +35 °C, Humidity 45~75%RH		Power Capacity	4W max.

Mechanical Dimensions

	In	mm		
L	0.026 ± 0.002	0.65 ± 0.05		
W	0.020 ± 0.002	0.50 ± 0.05		
T	0.015 ± 0.002	0.37 ± 0.05		
a	0.006 +0.004/-0.002	0.150 +0.1/-0.05		
b	0.009 +0.004/-0.002	0.225 +0.1/-0.05		

Terminal Configuration

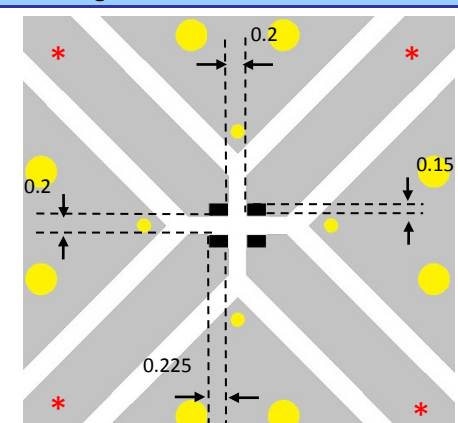
1	Coupled Out	3	Output
2	50Ω Termination	4	Input



Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450CP05A5400S
		T & R	Suffix = E	eg. 2450CP05A5400T
	Termination style	100% Tin	Suffix = None	eg. 2450CP05A5400(T or S)
	Evaluation Board	2450CP05A5400-EB1SMA		

Mounting Considerations



Legend:

- Solder Resist
- Land
- Through-hole ($\phi 0.15$ and 0.35)

* Line width should be designed to match a 50Ω characteristic impedance (preferably Grounded CPWG), depending on PCB material and thickness.

Need the layout file of the above? Send us a message at: <http://www.johansontechnology.com/ask-a-question>

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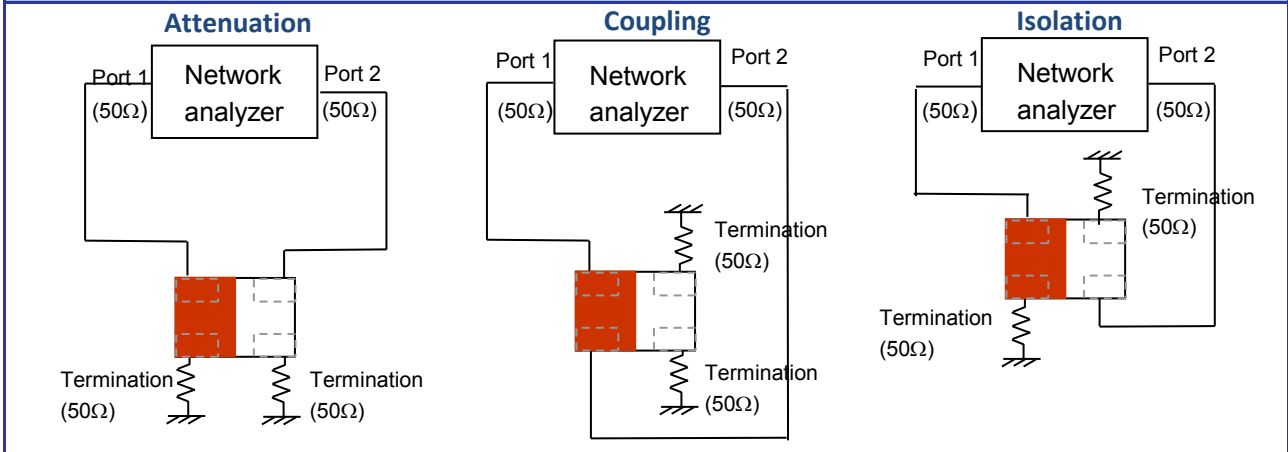
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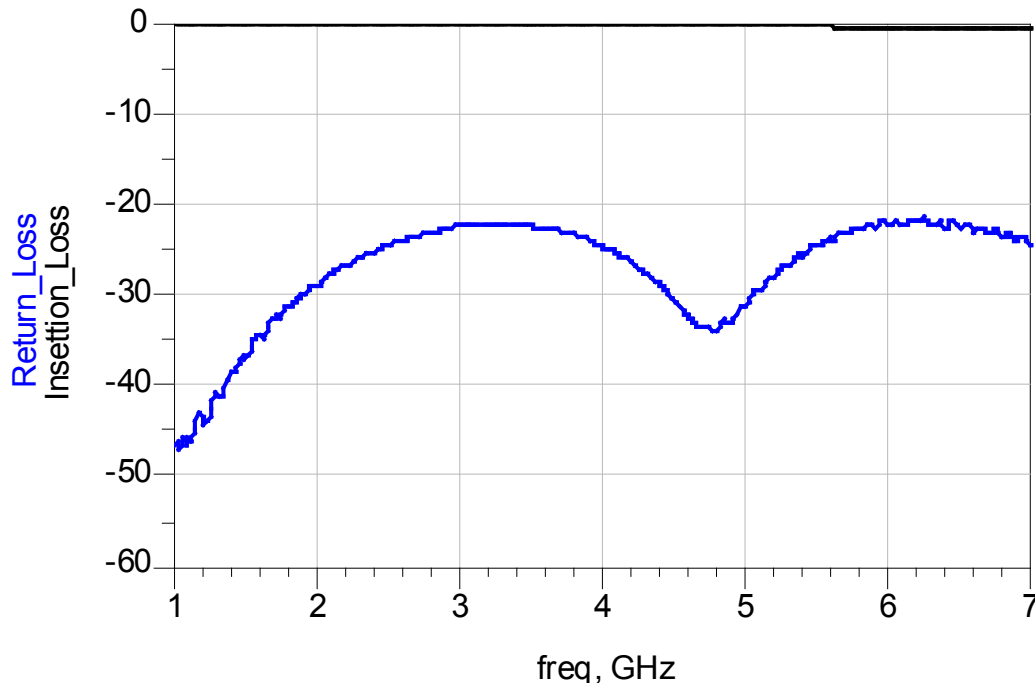
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Measuring Diagram



Typical Electrical Characteristics (T=25 °C)

Insertion Loss & Return Loss



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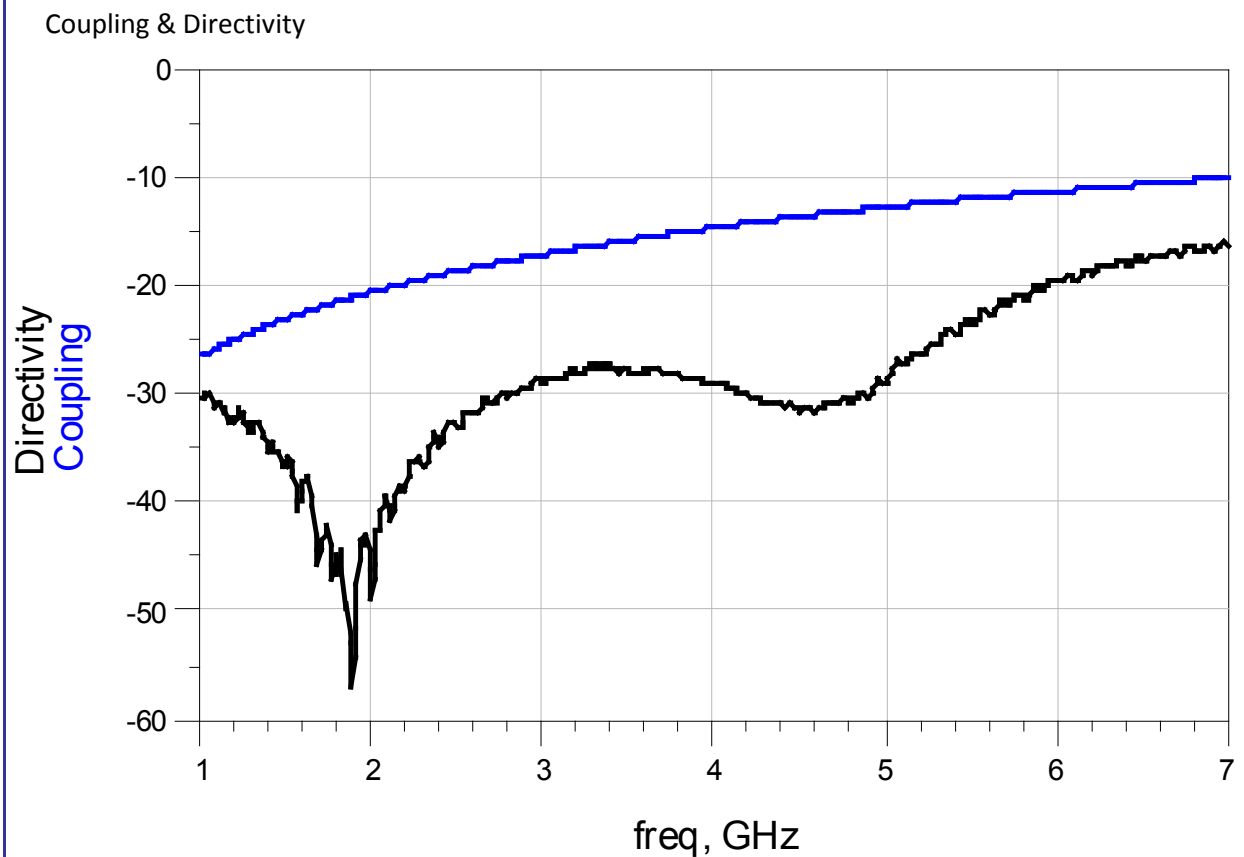
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Packaging information

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Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Layout Files, s-parameters and any other technical questions

www.johansontechnology.com/component/techquestion/?Itemid=407

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommended Storage Condition and Max Shelf Life

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