

High Frequency Ceramic Solutions

2.4/5GHz Dual Band Mini RF Coupler. EIA 0202 (0.6x0.5x0.37mm)


P/N 2450CP05A5400

Detail Specification: 4/11/2019

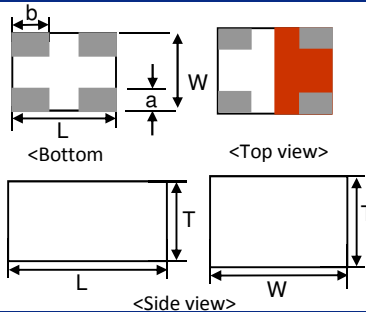
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General Specifications

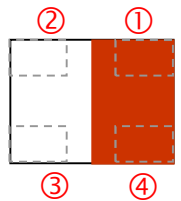
Part Number	2450CP05A5400			
Freq. Range (MHz)	2400 ~ 2500	4900 ~ 5850		
Insertion Loss (dB)	0.5 max.	0.5 max.		
VSWR	1.3 max.	1.3 max.		
Coupling	19 ± 1.5	12.5 ± 1.5		
Directivity	15 min.		Operating Temp Range	-40 to +85 °C
Qty/Reel	10,000 pcs		Storage Period	12 months max.
Storage Temp Range	+5 ~ +35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

Mechanical Dimensions

	In	mm		
L	0.026 ± 0.002	0.65 ± 0.05	<Bottom view>	<Top view>
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		
			<Side view>	

Terminal Configuration

1	Coupled Out	3	Output
2	50Ω Termination	4	Input



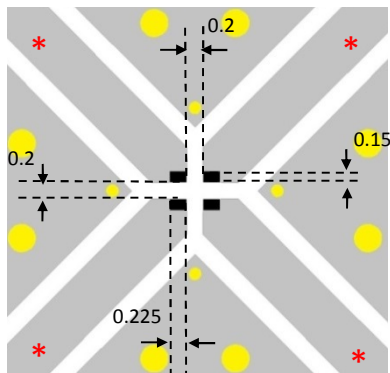
Always mount this component with red mark facing up. It will not function properly if flipped upside down.




Part Number Explanation

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

Mounting Considerations

Units in mm



-  Solder Resist
-  Land
-  Through-hole
(ϕ 0.15 and 0.35)

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

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



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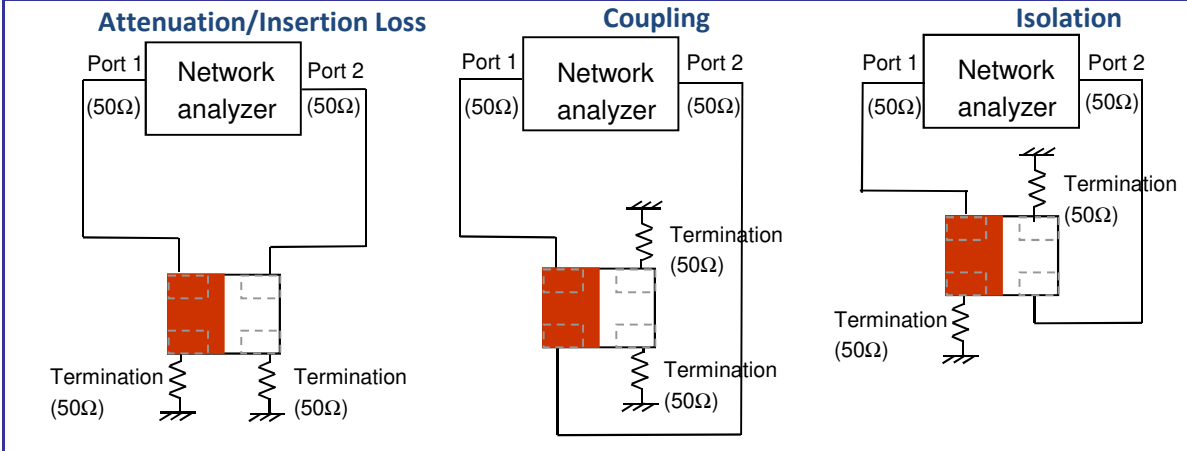
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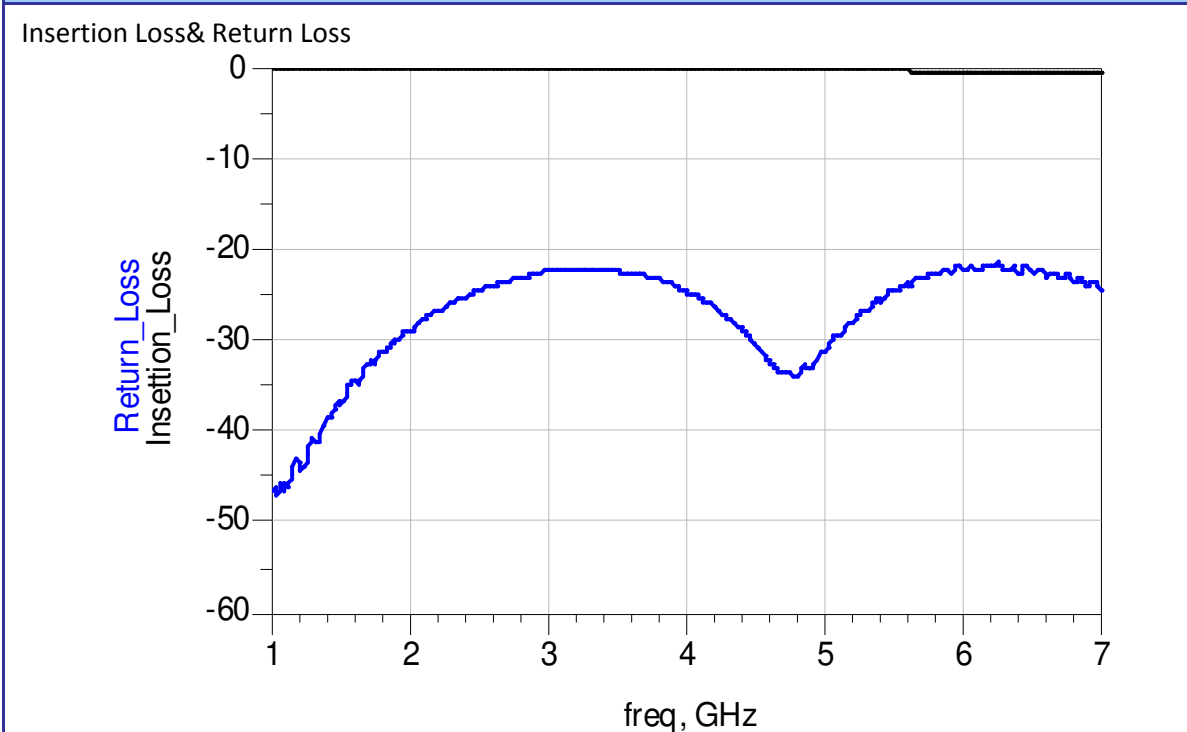
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Measurement Diagram and Setup



Typical Electrical Characteristics (T=25 °C)



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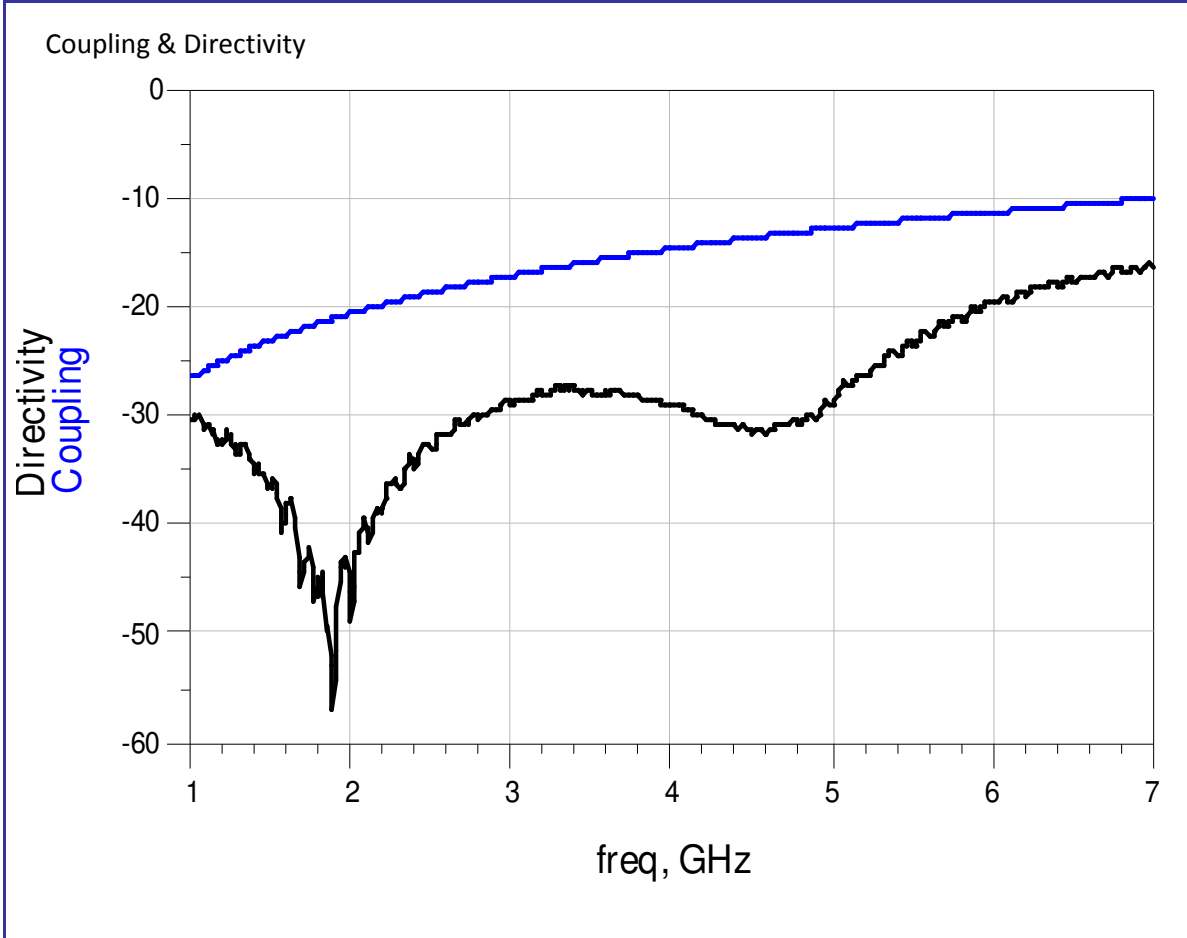
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RoHS Compliance

<https://www.johansontechnology.com/rohs-compliance>

Packaging information

<https://www.johansontechnology.com/tape-reel-packaging>

Soldering Information

<https://www.johansontechnology.com/ipcsoldering-profile>

Layout Files, s-parameters and any other technical questions

<https://www.johansontechnology.com/ask-a-question>

MSL Info

<https://www.johansontechnology.com/msl-rating>

Recommended Storage Condition and Max Shelf Life

<https://www.johansontechnology.com/recommended-storage-conditions>

Need a small SMD chip Antenna?

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Antenna tuning, optimization, and validation services:

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