

High Frequency Ceramic Solutions

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

P/N 2450CP05A5400

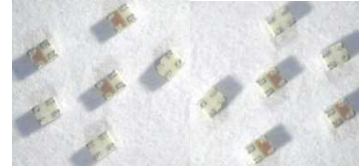
Detail Specification: 4/11/2019

Page 1 of 4

Not exactly what you are looking for and want to see our other filters? Go to: <https://www.johansontechnology.com/integrated-passives>

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

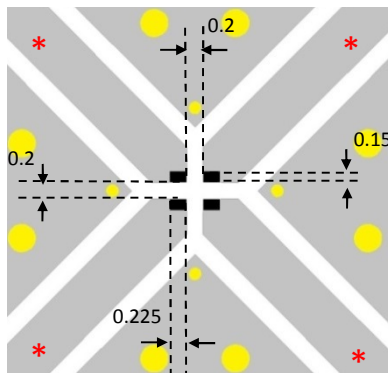
Always mount this component with red mark facing up. It will not function properly if flipped upside down.

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
($\phi 0.15$ and 0.35)

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

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

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



<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 1.1

2019 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

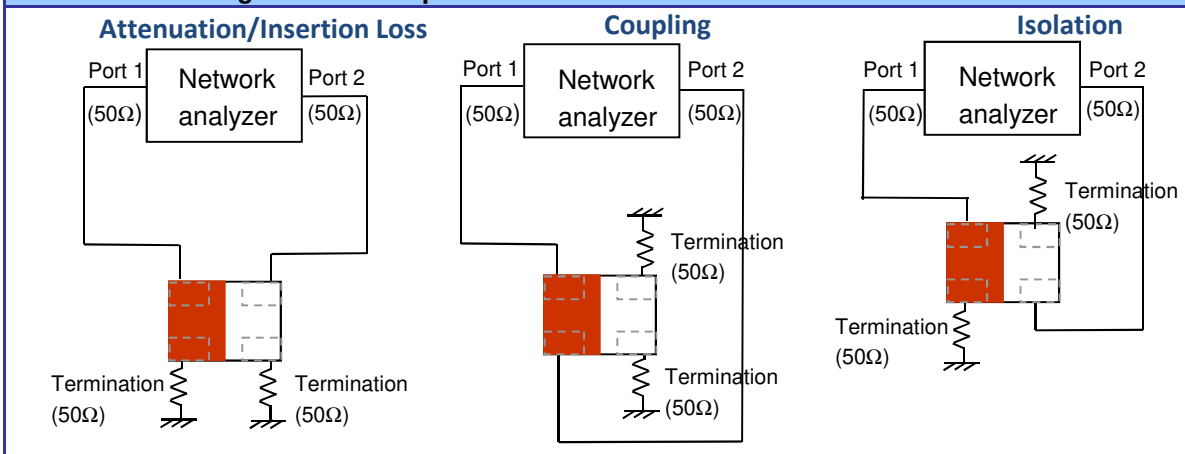
2.4/5GHz Dual Band Mini RF Coupler. EIA 0202 (0.6x0.5x0.37mm)

P/N 2450CP05A5400

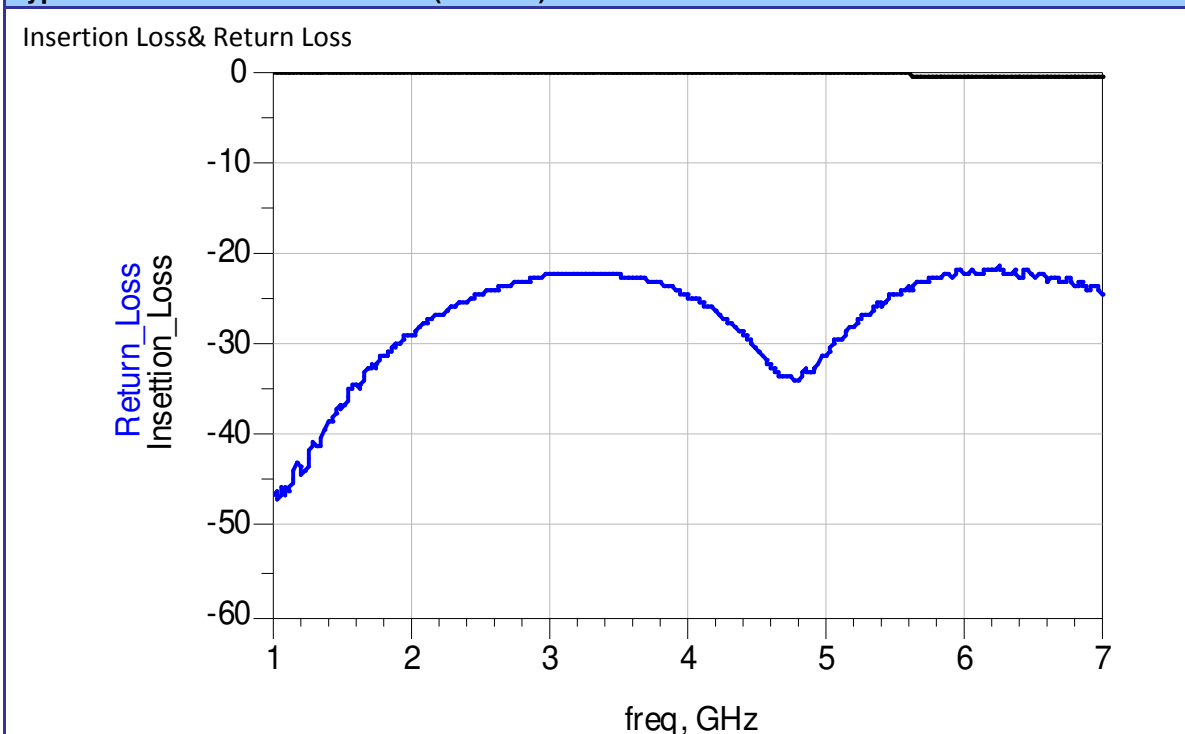
Detail Specification: 4/11/2019

Page 2 of 4

Measurement Diagram and Setup



Typical Electrical Characteristics (T=25 °C)



The contents of this data sheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.

High Frequency Ceramic Solutions

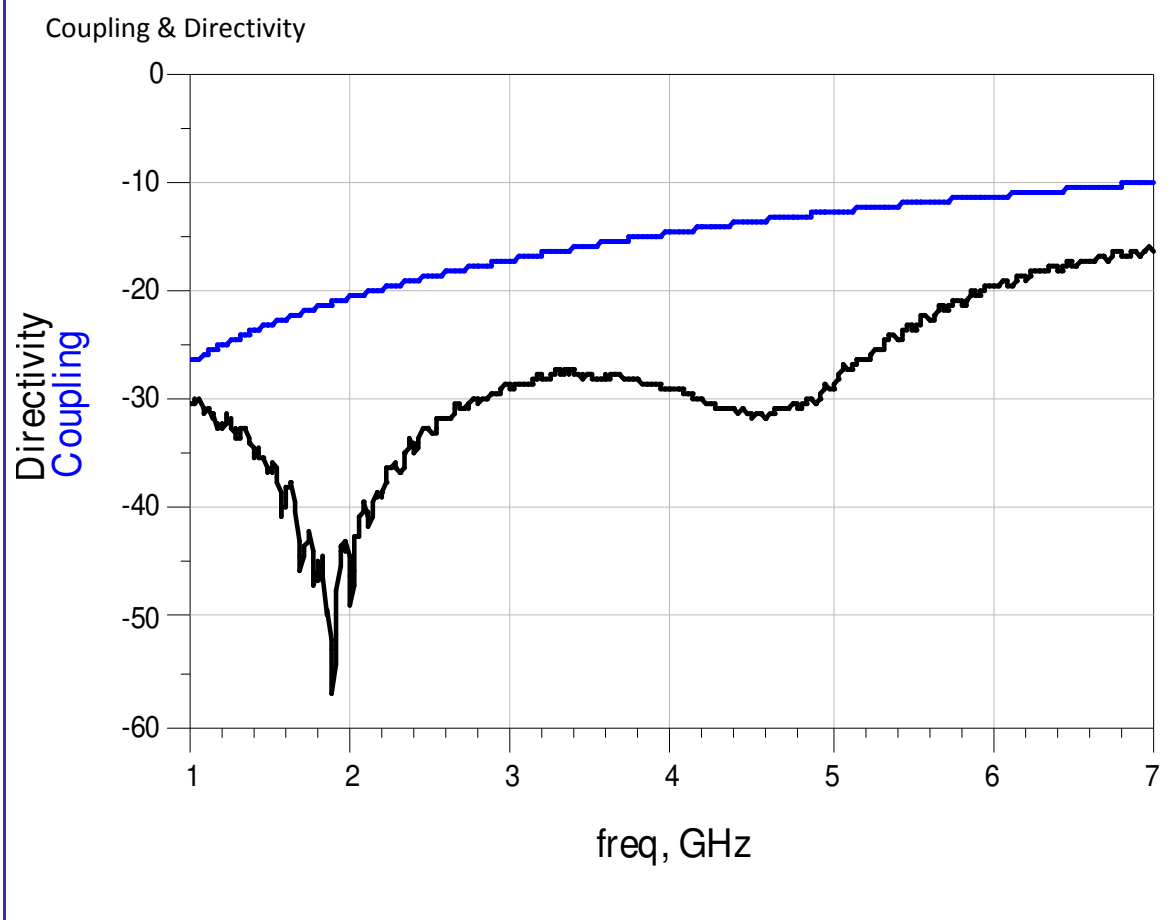
2.4/5GHz Dual Band Mini RF Coupler. EIA 0202 (0.6x0.5x0.37mm)

P/N 2450CP05A5400

Detail Specification: 4/11/2019

Page 3 of 4

Typical Electrical Characteristics (T=25 °C)



The contents of this data sheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 1.1

2019 Johanson Technology, Inc. All Rights Reserved

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

Page 4 of 4

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?

<https://www.johansontechnology.com/antennas>

Antenna tuning, optimization, and validation services:

<https://www.johansontechnology.com/ipc-antenna-services>

The contents of this data sheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



<https://www.johansontechnology.com>
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821
Ver 1.1 2019 Johanson Technology, Inc. All Rights Reserved