

High Frequency Ceramic Solutions

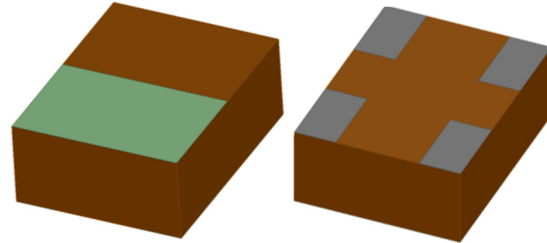
Ultra Miniature Low Loss 2.4GHz Power Divider

P/N 2450PD05A0100

Detail Specification: 6/21/2018

Page 1 of 5

General Specifications	
Part Number	2450PD05A0100
Frequency (MHz)	2400 - 2500
Insertion loss (dB)	4.0 max. (3.3 typ.)
Return Loss (dB)	15 min. (20 typ.)
Isolation (dB)	17 min. (22 typ.)
Amplitude Balance (dB)	1.5 max.
Phase Balance (°)	0 ± 10
Power Capacity (W)	3 max. (CW)



(Top)

(Bottom)

Reel Quantity	10,000 pcs
Operating Temperature	-40 to +85°C
Recommended Storage Conditions for unused T&R product	+5 to +35°C, Humidity: 45-75%RH, 18 mo. Max.*

*18 months in vacuum sealed bag and 1 week after opened. Please keep unused parts in vacuum sealed bags. For more information go to: <https://www.johansontechnology.com/silverleads>

Part Number Explanation				
P/N Suffix	Packaging Style	Bulk	Suffix = S	E.g. 2450PD05A0100S
		T & R	Suffix = T	E.g. 2450PD05A0100T
	Termination Style	AgPt	Suffix = None	E.g. 2450PD05A0100(T or S)

Mechanical Dimensions		
	In	mm
L	0.026 ± 0.002	0.65 ± 0.05
W	0.020 ± 0.002	0.50 ± 0.05
T	0.010 ± max.	0.25 ± max.
a	0.005 +0.004/-0.002	0.125 +0.1/-0.05
b	0.009 +0.004/-0.002	0.225 +0.1/-0.05

Terminal Configuration	
No.	Function
1	OUT1
2	OUT2
3	IN
4	GND

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

Ver. 1.0

2018 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

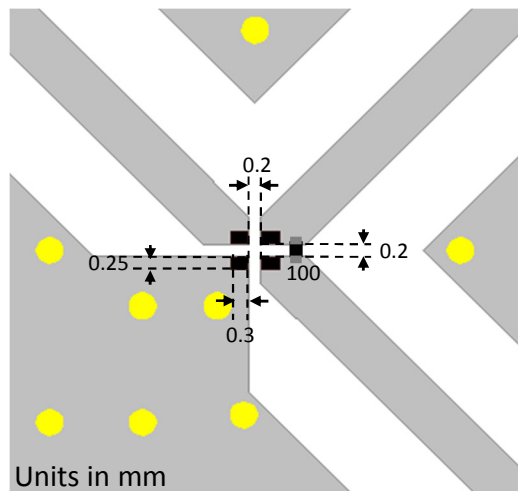
Ultra Miniature Low Loss 2.4GHz Power Divider




P/N 2450PD05A0100

Detail Specification: 6/21/2018

Page 2 of 5

Mounting Pad Dimensions

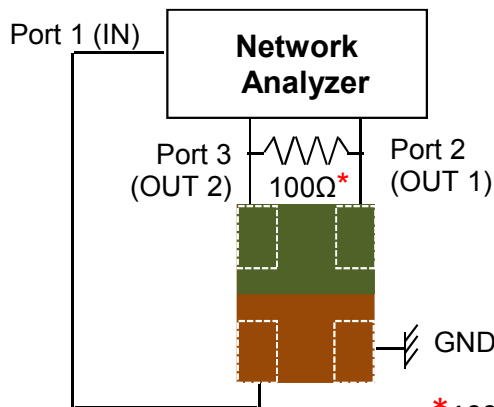


-  Solder Resist
-  Land
-  Through-hole (ϕ 0.35)

*Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Do you need the layout files of the above? Go to: www.johansontechnology.com/power-dividers or send us a message to review your layout at: <https://www.johansontechnology.com/ask-a-question>

Measurement Schematic



Port 1: Input

Port 2: Output 1

Port 3: Output 2

* 100 Ω external resistor required between OUT 1 and OUT 2

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver. 1.0

<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

2018 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

Ultra Miniature Low Loss 2.4GHz Power Divider

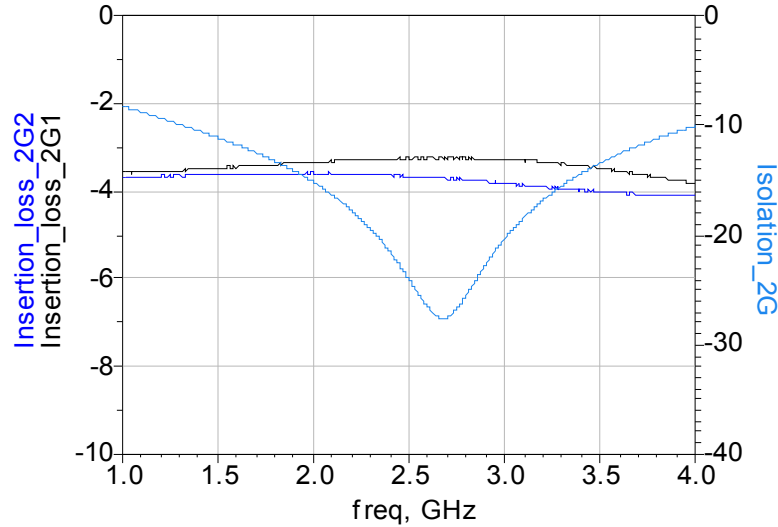
P/N 2450PD05A0100

Detail Specification: 6/21/2018

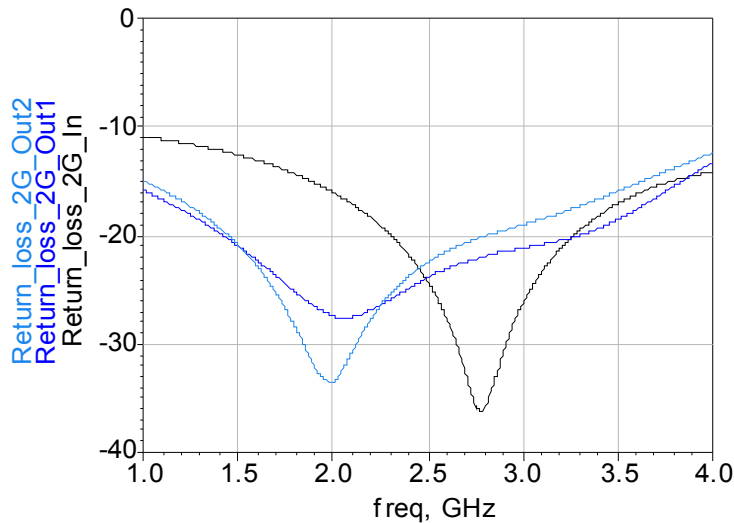
Page 3 of 5

Typical Electrical Characteristics (T=25°C)

Insertion Loss / Isolation



Return Loss



You can download measured s-parameters of this component at:

<https://www.johansontechnology.com/power-dividers>

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

Ver. 1.0 2018 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

Ultra Miniature Low Loss 2.4GHz Power Divider

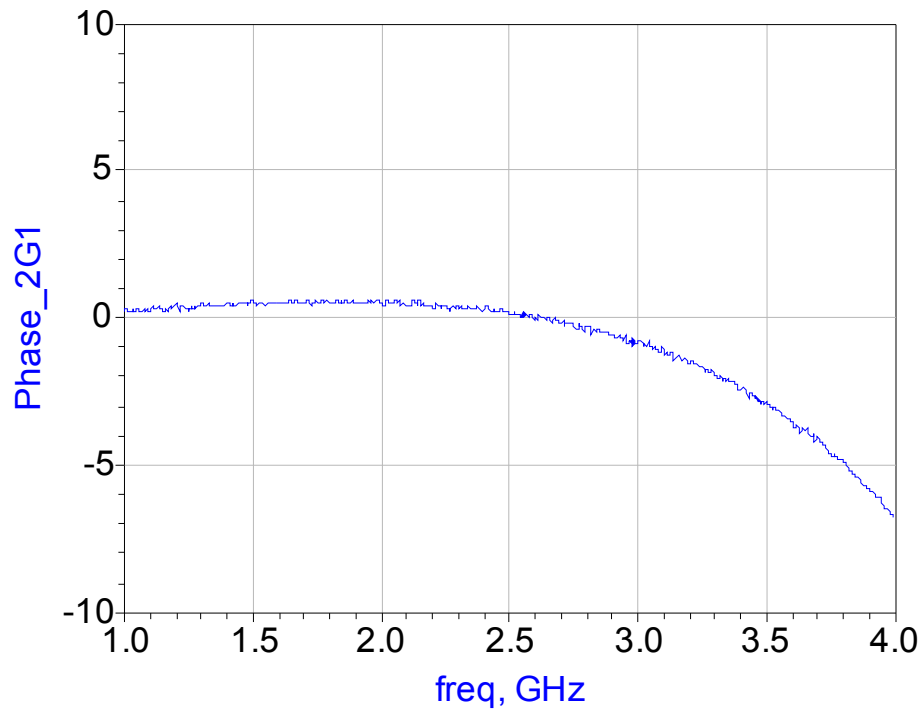
P/N 2450PD05A0100

Detail Specification: 6/21/2018

Page 4 of 5

Typical Electrical Characteristics (T=25°C)

Phase / Amplitude Balance



You can download measured s-parameters of this component at:

<https://www.johansontechnology.com/power-dividers>

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

Ver. 1.0 2018 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

Ultra Miniature Low Loss 2.4GHz Power Divider

P/N 2450PD05A0100

Detail Specification: 6/21/2018

Page 5 of 5

S-parameters

<https://www.johansontechnology.com/power-dividers>

Packaging information

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

Soldering Information

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

MSL Info

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

Recommended Storage Condition and Max Shelf Life

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

RoHS Compliance

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

Silver Termination

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

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver. 1.0

<https://www.johansontechnology.com>

4001 Calle Tecate • Camarillo, CA 93012, USA • TEL +1.805.389.1166

2018 Johanson Technology, Inc. All Rights Reserved