

"High Frequency Ceramic Solutions"

2.45/5.5GHz SMD Diplexer for 802.11/WLAN/WiFi

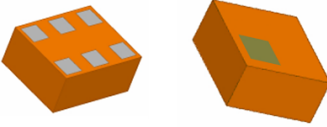
P/N 2450DP39K5400

Detail Specification: 4/25/2016

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General Specifications

Passband (MHz)	2400 ~ 2500	4900 ~ 5900		
Insertion Loss (dB)	0.85 Typ. 1.0 max.	0.78 Typ. 1.2 max.		
VSWR	2.0 max.			
Attenuation (dB)	25typ/15min @ 1550-1610MHz 15typ/10min @ 3105MHz 22typ/20min @ 4800-4950MHz 24typ/15min @ 4900-5950MHz	38typ/30min @ 2400-2500MHz 19typ/15min @ 3105MHz 21typ/15min @ 9800-11900MHz		
Isolation (dB)	36 Typ. 32 min	25 Typ. 20 min.		
Operating Temp.	-40 to +85 °C			
			Storage Conditions ¹	-45 to +85°C
			Storage Period	18 months max.
			Power Capacity	2W max. (CW)
			Reel Quantity	3,000 pcs

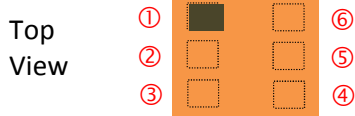
¹For pre-installation storage (product still on T&R) +5 to +35 °C, Humidity 45~75%RH is recommended

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450DP39K5400S
		T & R	Suffix = E	eg. 2450DP39K5400E
	Termination style	100% Tin	Suffix = None	eg. 2450DP39K5400(E or S)
	Evaluation Board	2450DP39K5400-EB1SMA		

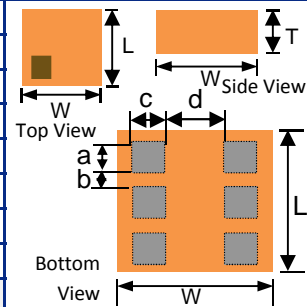
Terminal Configuration

No.	Function	No.	Function
1	GND	4	Higher Freq. Port
2	Common Port	5	GND
3	GND	6	Lower Freq. Port



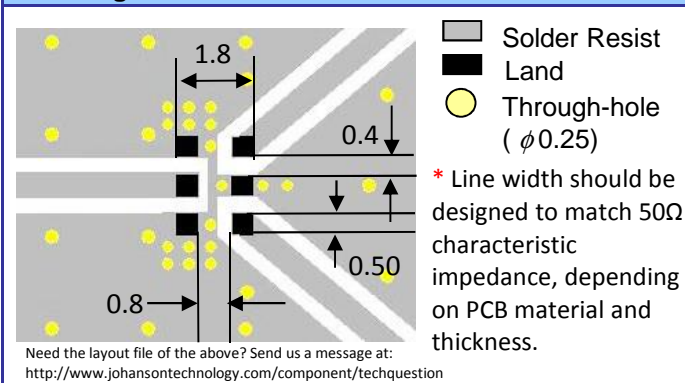
Mechanical Dimensions

	In	mm
L	0.098 ± 0.008	2.5 ± 0.2
W	0.079 ± 0.008	2.0 ± 0.2
T	0.004 max.	1.0 max.
a	0.020 ± 0.004	0.5 ± 0.1
b	0.016 ± 0.004	0.4 ± 0.1
c	0.020 ± 0.004	0.5 ± 0.1
d	0.031 ± 0.006	0.8 ± 0.15



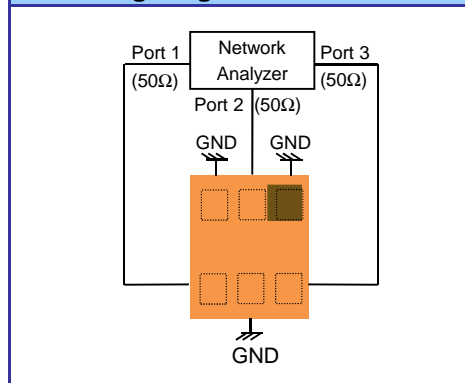
Component is AC coupled, no need for DC blocking cap between Low/High and Common Ports

Mounting Considerations



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

Measuring Diagram



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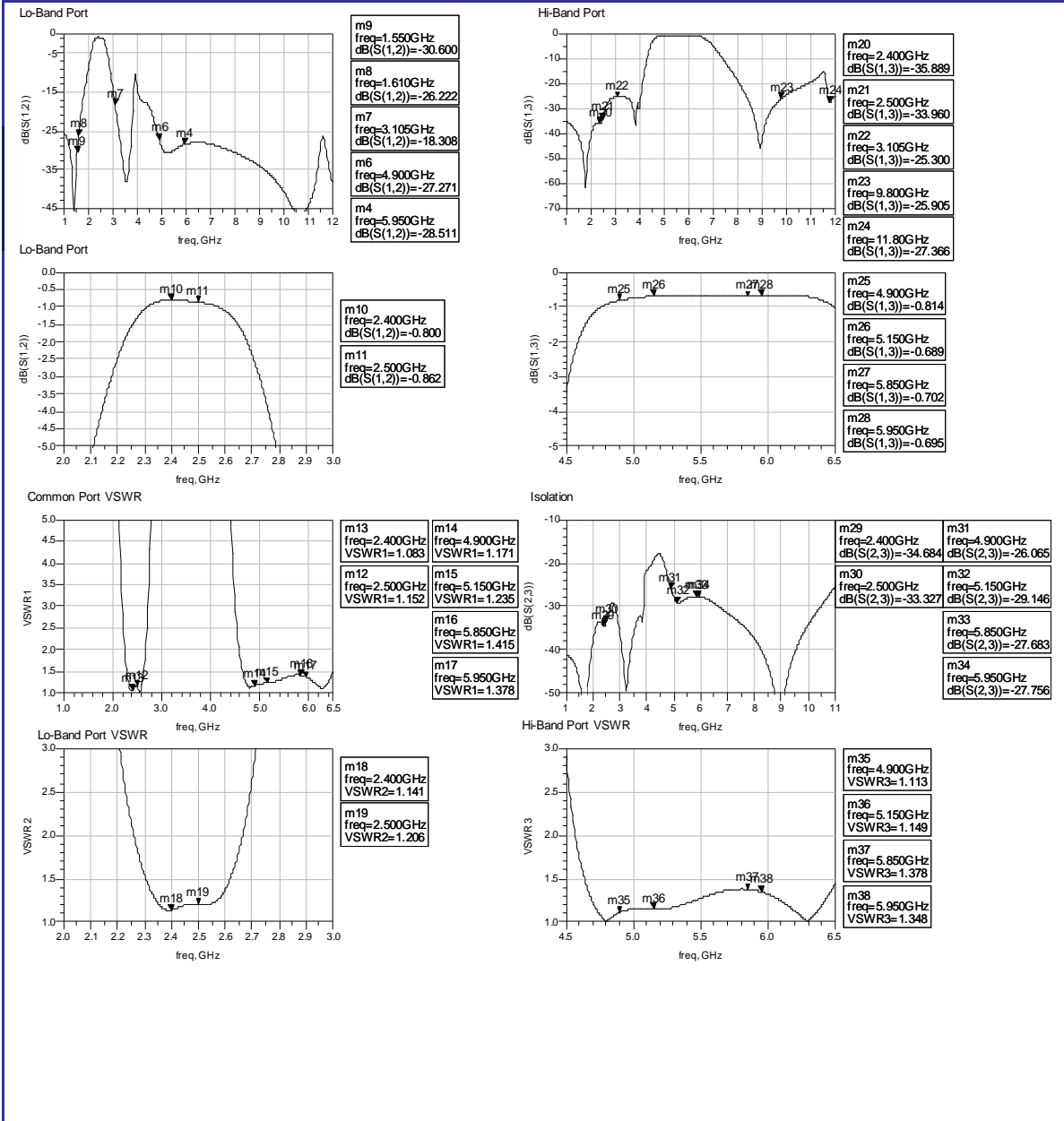
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Typical Electrical Characteristics (T=25 °C)



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RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

Packaging information

www.johansontechnology.com/ipcpackaging.html

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

www.johansontechnology.com/ipcstorage-shelflife

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices

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