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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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"High Frequency Ceramic Solutions"

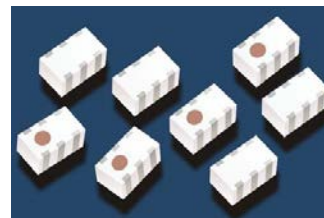
2.45 / 5.4GHz Low Loss Ceramic Chip Diplexer (LPF/BPF type) P/N 2450DP15L5400

Spec. Release Date: 02/24/17

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General Specifications

Part Number		2450DP15L5400		
Passband (MHz)	Insertion Loss (dB)	Attenuation	Return Loss (dB)	Isolation (dB)
2400~2500	0.25 typ. (0.5 max.)	20dB min. (27 typ.) @4.8-6.0GHz	10 min. (20 typ.)	20 min. (22 typ.) @2.4-2.5GHz
		20dB min. (30 typ.) @7.2-7.5GHz		
4900~5950	0.35 typ. (0.65 max.)	20dB min. (23 typ.) @ 0.8-2.5GHz	10 min. (15 typ.)	20 min. (27 typ.) @4.9-5.95GHz
		15dB min. (18typ.) @9.8-11.9GHz		
Impedance for all I/O ports		50 Ω		
Operating Temp/Post-Installation Storage Temperature			+5 to +35°C, Humidity 45~75%RH, 18 mos max	
Storage Temp (unused product on T&R)			-40 to +85°C	
Input Power		2W max (CW)	Reel Quantity	4000 pcs



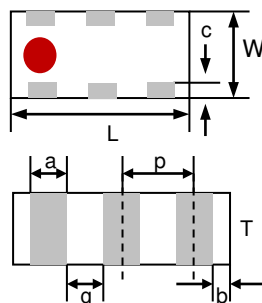
Note: This component is identical to p/n: 2450DP15K5400 except that the 2.4G and 5G pins are swapped in functionality and has a round top red mark for distinction.

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450DP15L5400S
		T & R	Suffix = E	eg. 2450DP15L5400E
	Termination style	Ni/Sn	Suffix = None	eg. 2450DP15L5400S(E or S)
	Evaluation Board	2450DP15L5400-EB1SMA (3-port PCB with 50ohm SMA connectors)		

Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.020 ± 0.004	0.50 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 ± 0.004/-0.008	0.30 +0.1/-0.2
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05



Terminal Configuration

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

Mounting Considerations and appearance

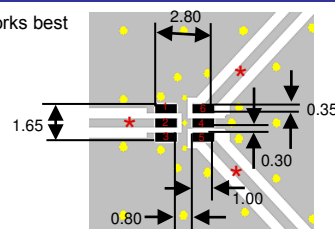
* Line width should be designed to provide 50Ω impedance matching characteristics. CPWG style works best

Need the layout file of this diplexer? Send us a message at:

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Do you need some measured s-parameters? Send us a message at the link above.

- Solder Resist
 - Land
 - Through-hole (φ 0.35 / 0.20)
- Units: mm



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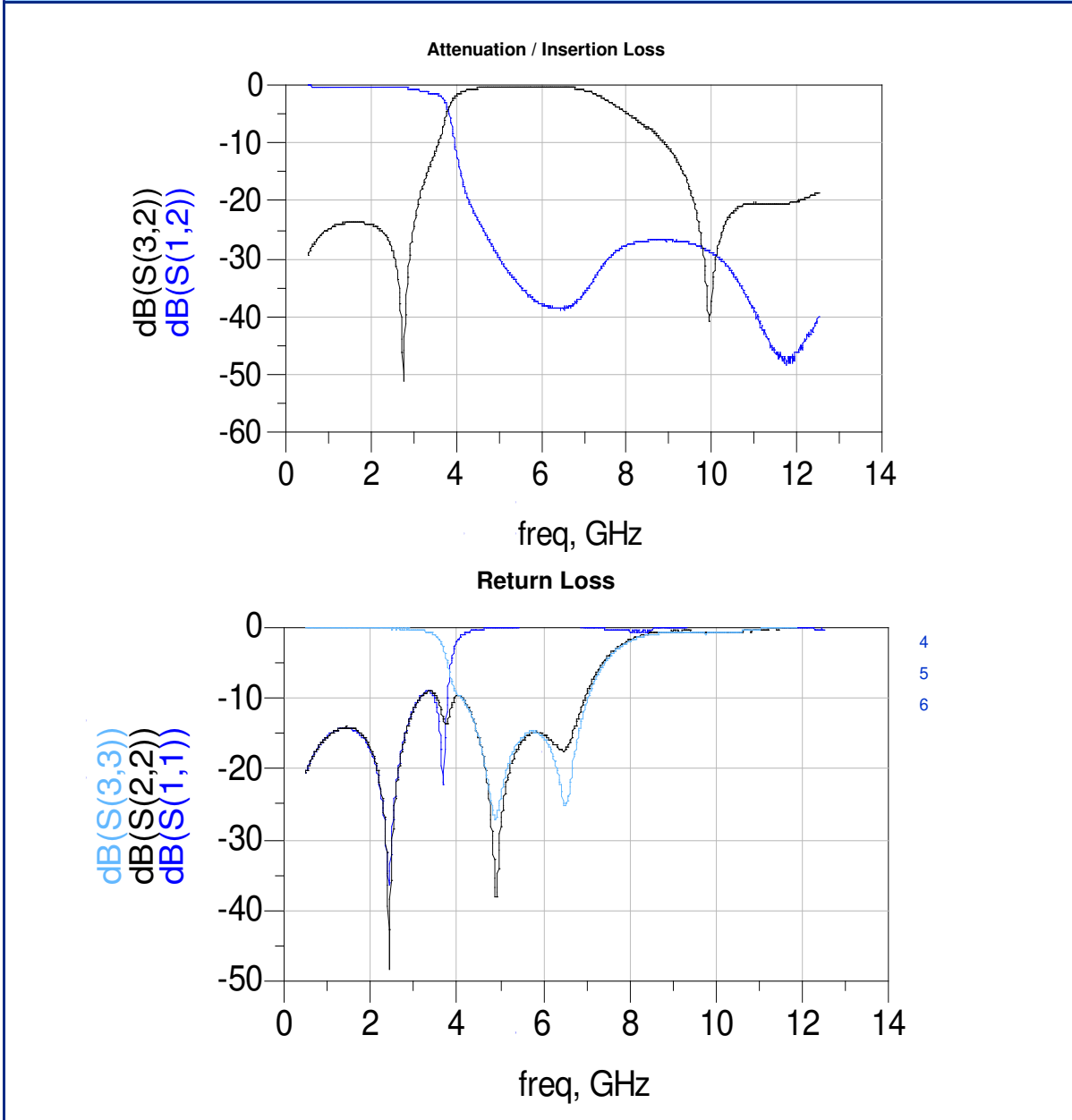
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Typical Electrical Performance (T=25°C)



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RoHS Compliance

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

Packaging information

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

Soldering Information

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

Layout Files, s-parameters and any other technical questions

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

MSL Info

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

Recommended Storage Condition and Max Shelf Life

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

Antenna layout and tuning techniques

<http://www.johansontechnology.com/tuning.html>

Antenna layout review, tuning, and characterization services

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

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