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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!



## Contact us

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# "High Frequency Ceramic Solutions"

**2.45 / 5.4GHz Ceramic Chip Diplexer (LPF/BPF type)**

**P/N 2450DP15K5400**

Detail Specification: 12/15/2011

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## General Specifications

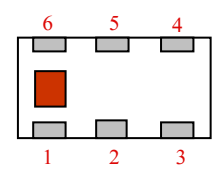
Part Number		2450DP15K5400		
Passband (MHz)	Insertion Loss (dB)	Attenuation	Return Loss (dB)	Isolation (dB)
2400~2500	0.5 max. (0.25 typ.)	20dB min. (27 typ.) @4.8-6.0GHz	10 min. (20 typ.)	20 min. (22 typ.) @DC-2.5GHz
		20dB min. (30 typ.) @7.2-7.5GHz		
4900~5950	0.65 max. (0.35 typ.)	20dB min. (23 typ.) @ 0.8-2.5GHz	10 min. (15 typ.)	20 min. (27 typ.) @4.9-5.95GHz
		15dB min. (18typ.) @9.8-11.9GHz		

Impedance	50 Ω
Oper. Temp	-40 to +85°C
Storage Temp	+5 to +35°C, Humidity 45~75%RH, 18 mos max*
Input Power	2W max
Reel Quantity	4000

\*18 months in vacuum sealed bag and 1 week after opened. Go to: [www.johansontechnology.com/silverleads](http://www.johansontechnology.com/silverleads) for details

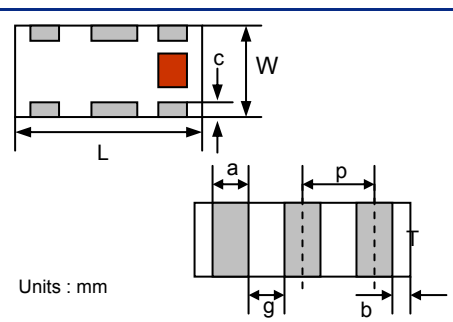
Packaging Style	Bulk	Suffix = S	Eg. 2450DP15K5400S
	T & R	Suffix = E	Eg. 2450DP15K5400E
Termination Style	AgPt	Suffix = None	Eg. 2450DP15K5400(E or S)
	Tin / Lead	Please consult Factory	

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



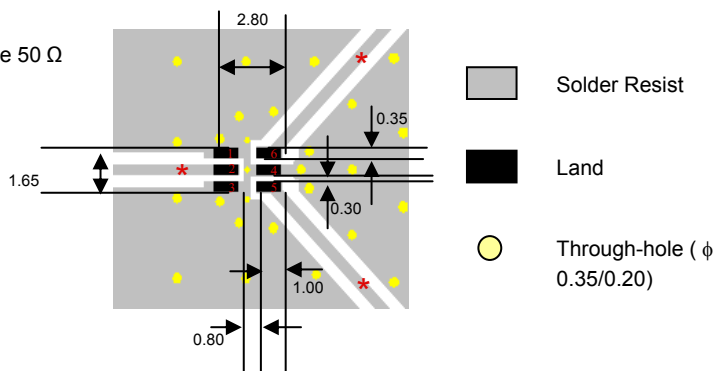
## Mechanical Dimensions

	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 +.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



## Mounting Considerations

\*Line width should be designed to provide 50 Ω impedance matching characteristics.  
Units: mm



Evalboard  
P/N:2450DP15K5400 -EBSMA

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

Johanson Technology, Inc. reserves the right to make design changes without notice.  
All sales are subject to Johanson Technology, Inc. terms and conditions.



[www.johansontechnology.com](http://www.johansontechnology.com)

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# "High Frequency Ceramic Solutions"

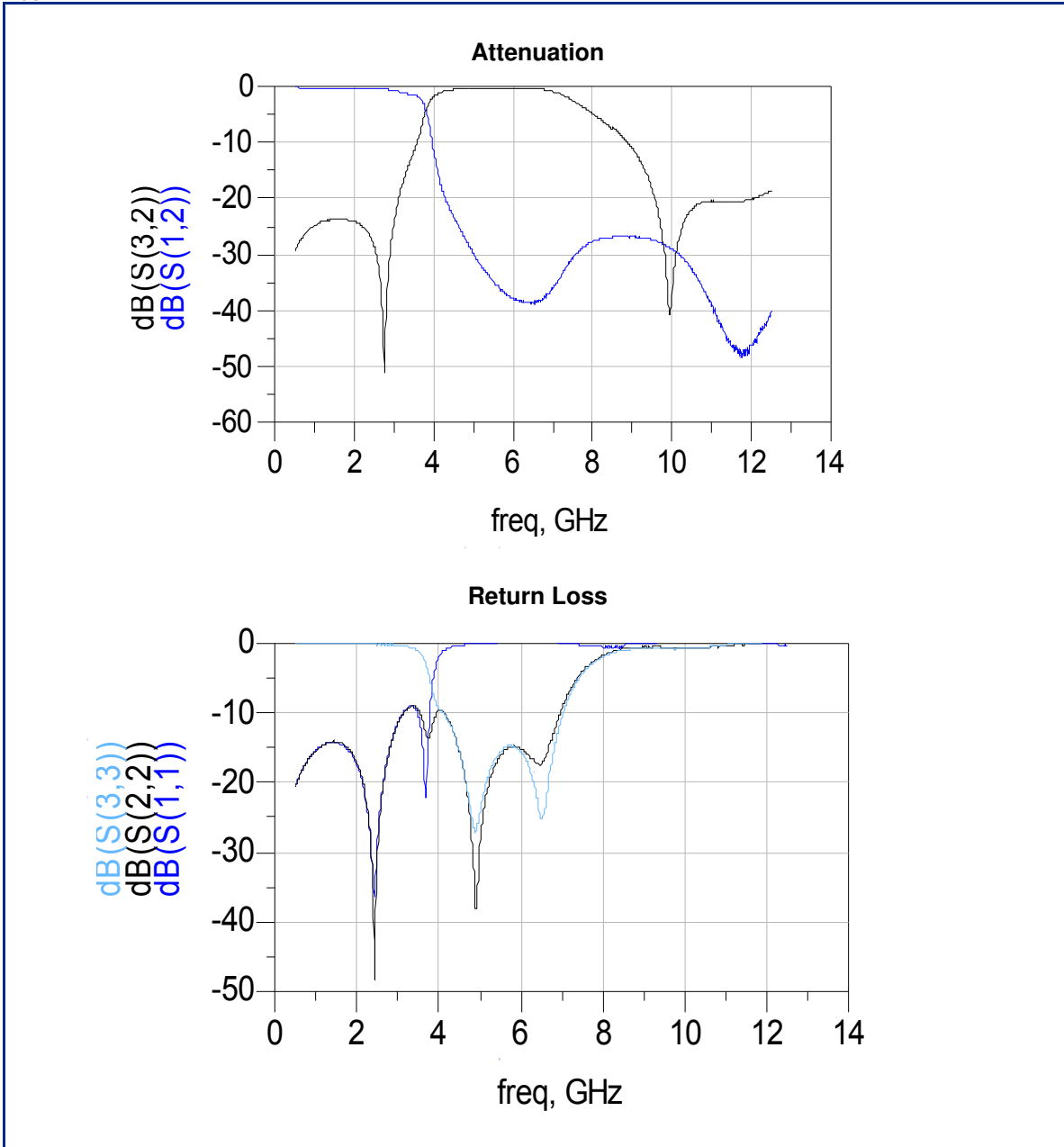
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Typical Electrical Performance (T=25°C)



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