

"High Frequency Ceramic Solutions"

ISM 315/433MHZ Low Pass Filter

P/N 0372LP15A0125

Detail Specification: 8/27/2014

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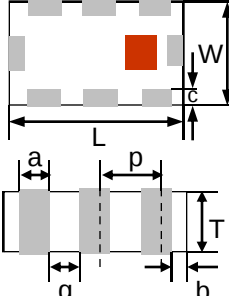
General Specifications

Part Number	0372LP15A0125	Operating Temperature	-40 to +85°C
Operating Frequency	310 - 435 MHz	Recommended Storage Conditions	+5 to +35°C, Humidity 45~75%RH, 18 mos. Max
Insertion Loss	1.3 dB max.	Power Capacity	2W max. (CW)
Return Loss	9.5 dB min.		
Reel Quantity	4,000		
Min. Attenuation (db)	20 dB @ < 620~626	Min. Attenuation (db)	25 dB @ < 1739~1885
	30 dB @ < 627~631		30 dB @ < 1885~1890
	25 dB @ < 635~865		25 dB @ < 1895~2166
	30 dB @ < 866~870		35 dB @ < 2166~2173
	25 dB @ < 870~940		25 dB @ < 2173~2195
	35 dB @ < 940~950		35 dB @ < 2195~2205
	25 dB @ < 950~1250		25 dB @ < 2210~2505
	30 dB @ < 1255~1260		30 dB @ < 2510~2520
	25 dB @ < 1265~1299		25 dB @ < 2525~2600
	35 dB @ < 1299~1309		30 dB @ < 2600~2607
	25 dB @ < 1309~1570		25 dB @ < 2607~2825
	35 dB @ < 1570~1575		35 dB @ < 2825~2835
	25 dB @ < 1580~1733		25 dB @ < 2835~3033
	30 dB @ < 1733~1739		35 dB @ < 3033~3041

Part Number Explanation

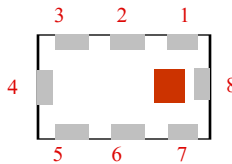
P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 0372LP15A0125S
		T & R	Suffix = E	eg. 0372LP15A0125E (4000 pcs)
	Termination style	100% Tin	Suffix = None	eg. 0372LP15A0125 (E or S)
	Evaluation Board	0372LP15A0125-EB1SMA		

Mechanical Dimensions

	In	mm	
L	0.079 ± 0.004	2.00 ± 0.10	
W	0.049 ± 0.004	1.25 ± 0.10	
T	0.037 ± 0.004	0.95 ± 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	0.3 + 0.10 -0.20	
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	5	GND
2	NC	6	NC
3	GND	7	GND
4	OUT	8	IN



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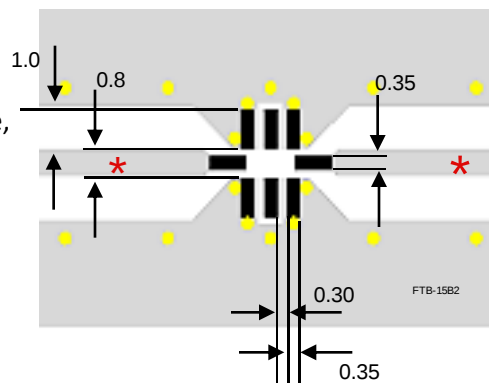
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Mounting Considerations

Mount these devices with red mark facing up.

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

Units: mm

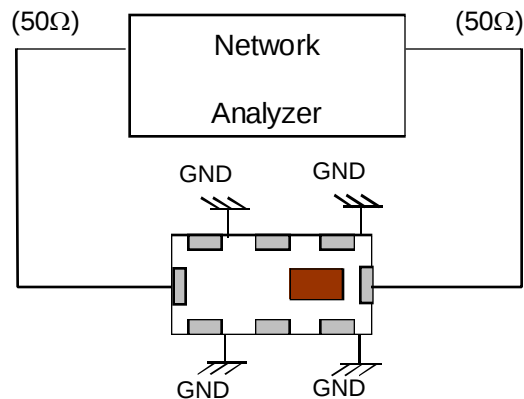


LEGEND

- Solder Resist
- Land
- Through-hole ($\phi 0.3$)

2-Port SMA Evaluation Board p/n: 0372LP15A0125-EB1SMA

Measuring Diagram



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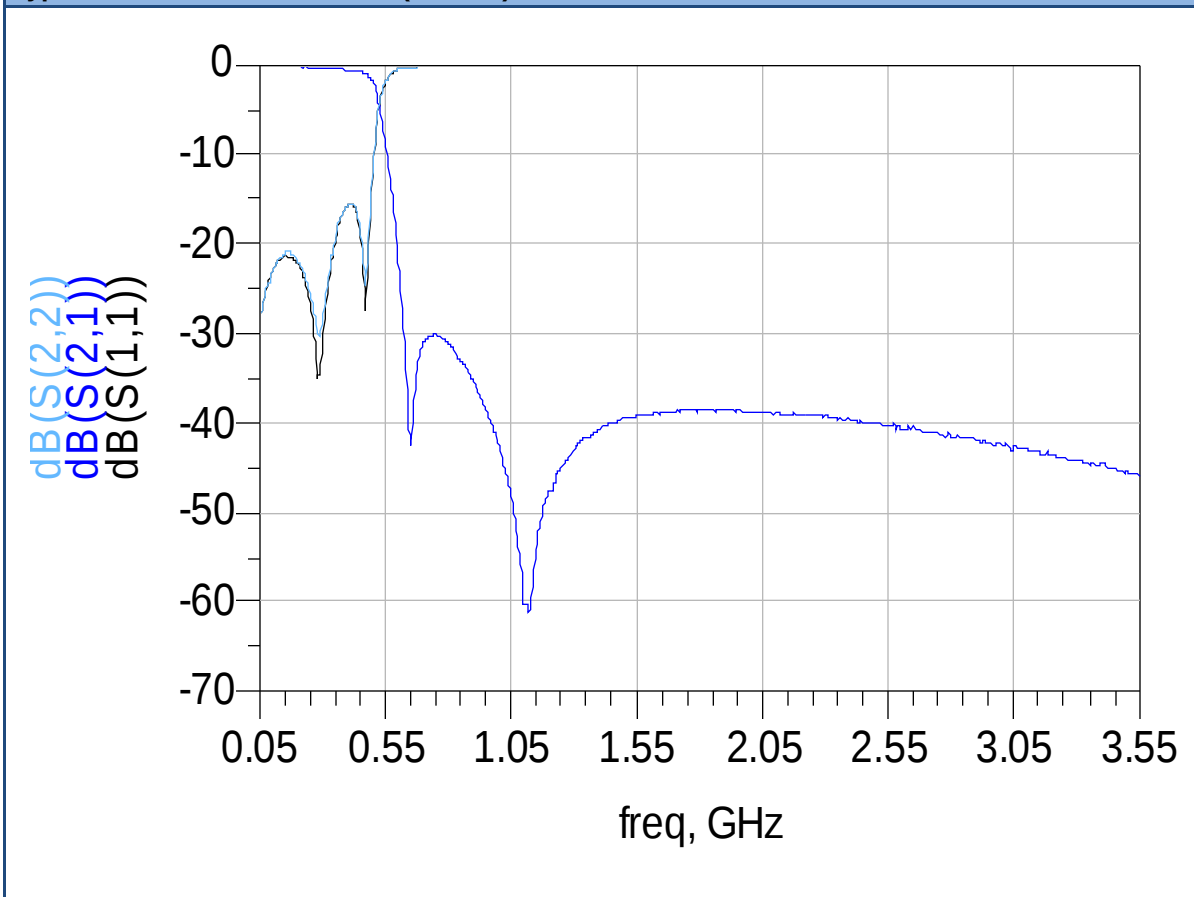
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Typical Electrical Performance (T=25°C)



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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

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