

High Frequency Ceramic Solutions

312-434 MHz Low Pass Filter. Lighting, Remote Control, Smart Home, Automotive Key Fobs, Location Services, AMR

P/N: 0400LP15A0122

Detail Specification: 5/26/2016

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AEC-Q200 available

General Specifications

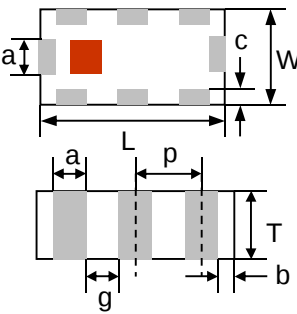
Frequency (MHz)	312 - 434	Recommended Storage Conditions (unused product on T&R)	+5 ~ +35 °C, Humidity 45~75%RH
Insertion Loss (dB)	0.9 Typ. (1.3 max)	Operating Temperature	-40 to +85°C
Return Loss (dB)	15 Typ. (9.5 min)	Storage Temperature	-40 to +85°C
Attenuation @ 624-630MHz (dB)	28 Typ. (20 Min.)	Power Capacity	2W max. (CW)
Attenuation @ 800-900MHz (dB)	30 Typ. (25 Min.)		
Attenuation @ 900-950MHz (dB)	35 Typ. (30 Min.)		
Attenuation @ 1575MHz (dB)	38 Typ. (35 Min.)		
Attenuation @ 1700-2100MHz (dB)	34 Typ. (28 Min.)		
Attenuation @ 2195-2205 (dB)	38 Typ. (35 Min.)		
Attenuation @ 2400-2600 (dB)	30 Typ. (25 Min.)		



Do you need us to review your layout for free or may be looking for a small SMD antenna ? Contact us at:
www.johansontechnology.com/ask-a-question

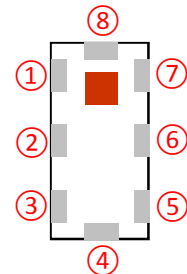
Mechanical Dimensions

	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/-0.006	0.20 +0.1/-0.15
c	0.012 ± 0.004	0.30 ± 0.10
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05



Terminal Configuration

No.	Function
1	GND
2	NC
3	GND
4	I/O
5	GND
6	NC
7	GND
8	I/O



Mounting Considerations

Solder Resist

Land

RF GND Vias Through-hole (ø0.3)

*Trace must be designed to a 50Ω characteristic impedance based on PCB material and thickness. Grounded CPWG style trace recommended.

Want the layout file or need us to revise your layout to make sure is correct? Send us a message at:
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Ver. 1.0

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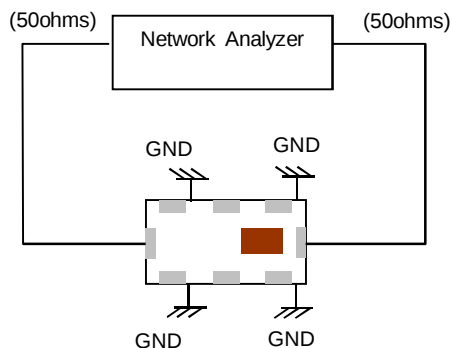
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Measuring Diagram

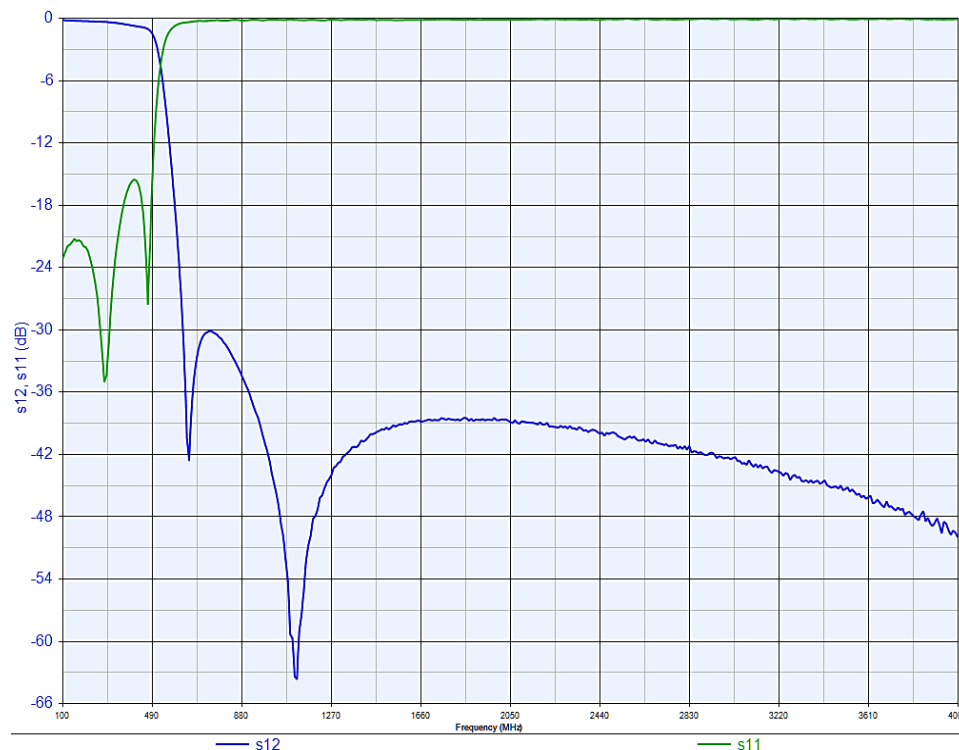


Click here Order the SMA-ready Evaluation Board p/n 900LP15B0063-EB1SMA:
www.johansontechnology.com/request-a-

Want the layout file of this? Send us a message at:
www.johansontechnology.com/ask-a-question

Let us help with your filter (or Johanson antenna) layout for best performance and send us a message by clicking on the link above

Typical Electrical Performance (T=25°C)



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Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	0400LP15A0122
		T & R	Suffix = T	0400LP15A0122E (Reel Size: 4000pcs)
	50Ω SMA Connector Eval Board		0400LP15A0122-EB1SMA (orderable p/n)	

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/typical-soldering-profile.html

RoHS Compliance

www.johansontechnology.com/rohs-compliance

MSL Info

www.johansontechnology.com/msl-rating

To Download Measured S-parameters for Evaluation and Simulation:

www.johansontechnology.com/low-pass-filters

For layout review contact our Applications Team at:

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Mini SMD Chip Antennas at:

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