

High Frequency Ceramic Solutions

312-434 MHz Low Pass Filter. Lighting, Remote Control, Smart Home, Automotive Key Fobs, Location Services, AMR, AEC-Q200 Qualified

P/N: 0400LP15A0122E-AEC

Detail Specification: 2/21/2018

Page 1 of 3

General Specifications

Frequency (MHz)	312 - 434	Operating Temperature	-40 to +105°C
Insertion Loss (dB)	0.9 Typ. (1.3 max)	Recommended Storage	+5 to +35 °C
Return Loss (dB)	15 Typ. (9.5 min)	Conditions of unused product on T&R and period	Humidity 45~75%RH 18 months
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 +.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 (φ 0.3)

*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 review your layout? Send us a message at: www.johansontechnology.com/ask-a-question

Johanson Technology, Inc. reserves the right to make design changes without notice.

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www.johansontechnology.com
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Ver. 1.1

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High Frequency Ceramic Solutions

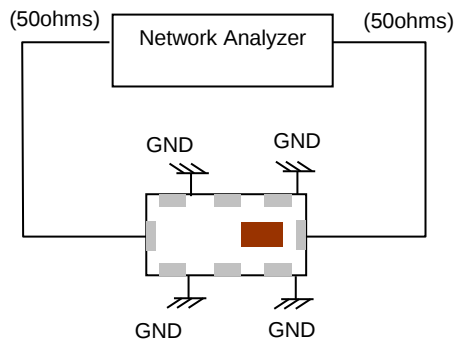
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Page 2 of 3

Measuring Diagram

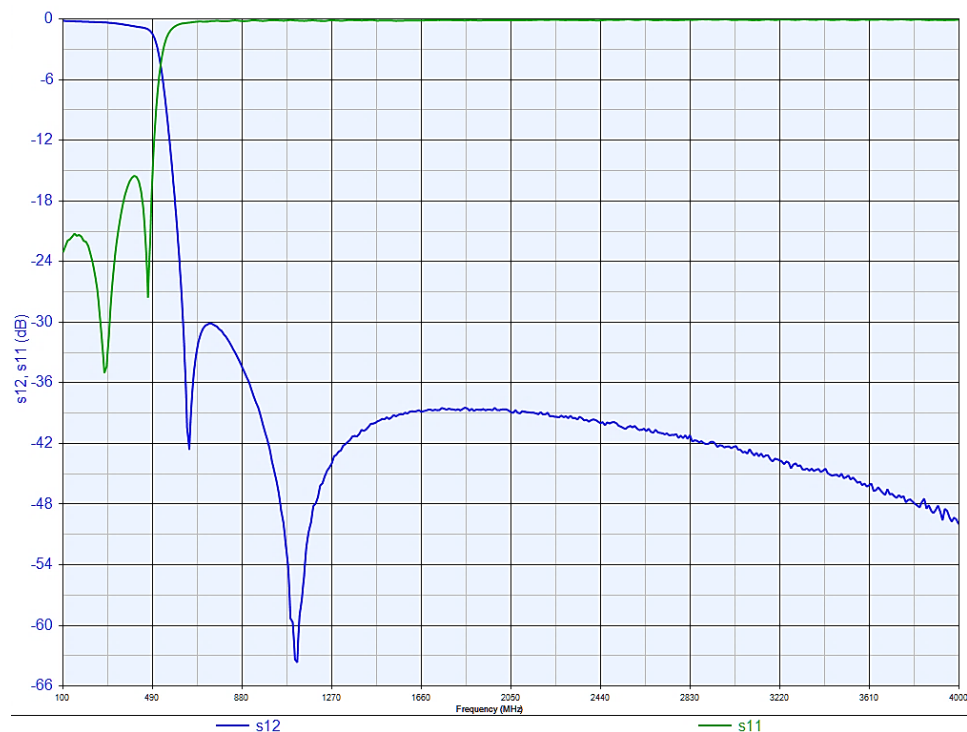


Click here Order the SMA-ready Evaluation Board p/n 0400LP15A0122-EB1SMA:
www.johansontechnology.com/request-a-

Want the layout file of this? Send us a message at:
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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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Page 3 of 3

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	0400LP15A0122S-AEC
		T & R	Suffix = T	0400LP15A0122E-AEC (Reel:4000pcs)
	50Ω SMA Connector Eval Board		0400LP15A0122E-EB1SMA (orderable p/n)	

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/typical-soldering-profile

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:

www.johansontechnology.com/antennas

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