

# 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

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## General Specifications

|                                 |                    |                                                                             |                                                |
|---------------------------------|--------------------|-----------------------------------------------------------------------------|------------------------------------------------|
| Frequency (MHz)                 | 312 - 434          | Operating Temperature                                                       | -40 to +105°C                                  |
| Insertion Loss (dB)             | 0.9 Typ. (1.3 max) | Recommended Storage<br>Conditions of unused<br>product on T&R and<br>period | +5 to +35 °C<br>Humidity 45~75%RH<br>18 months |
| Return Loss (dB)                | 15 Typ. (9.5 min)  | Power Capacity                                                              | 2W max. (CW)                                   |
| Attenuation @ 624-630MHz (dB)   | 28 Typ. (20 Min.)  |                                                                             |                                                |
| 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 ?  
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## 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/-.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 ( $\phi 0.3$ )

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

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Ver. 1.1

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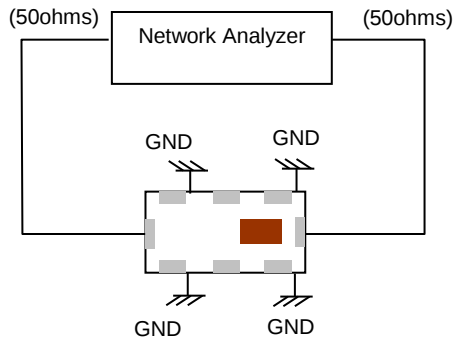
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## Measuring Diagram



Click here Order the SMA-ready Evaluation Board p/n 0400LP15A0122-EB1SMA:

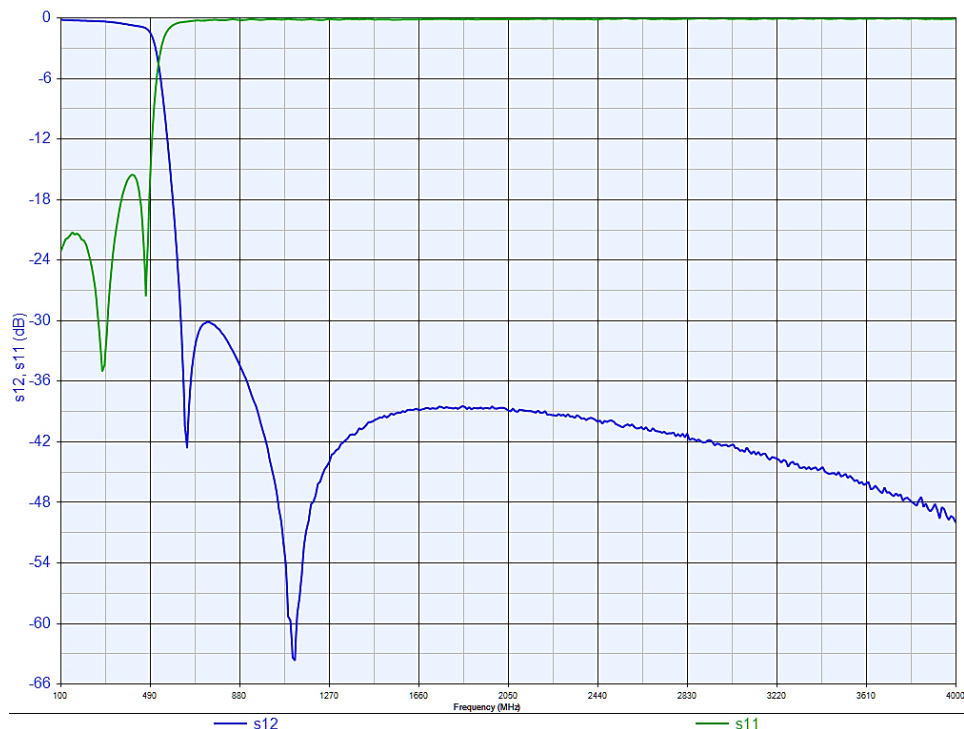
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Let us help with your filter (or Johanson antenna) layout for best performance and send us a message by clicking on the link above.

## Typical Electrical Performance (T=25°C)



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