**DESCRIPTION**

DLI introduces its new high frequency surface mountable catalog low pass filters. These LPF’s incorporate DLI’s high dielectric ceramic materials which provide small size and minimal performance variation over temperature. The catalog LPF’s are offered in a variety of frequency bands, which offers a drop in solution for high frequency attenuation.

**FEATURES**

- Small Size
- Fully Shielded Component
- Frequency Stable over Temperature
- Solder Surface Mountable
- Excellent Repeatability
- Operating Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω
- 100% Tested & Inspected

**SPECIFICATIONS***

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency (GHz)</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passband Insertion Loss*</td>
<td>DC - 4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Min Passband Return Loss</td>
<td>DC - 4</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Stopband Attenuation (dB)</td>
<td>6 - 16</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Size (LxWxH)</td>
<td>0.220 x 0.180 x 0.103 in</td>
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</tbody>
</table>

*Electrical specifications based on typical mounted performance at room temperature. Insertion loss shall vary ±0.5dB over temperature.

**Typical Measured Performance**

Magnitude (dB) vs Frequency (GHz) graph showing the performance characteristics of the LPF.
5GHz Surface Mount LPF
L050XF9S

Physical Dimensions

Recommended PCB Layout

- 50Ω trace dimensions are application specific.
- Ensure adequate grounding beneath the filter.