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>
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</thead>
<tbody>
<tr>
<td>Passband Insertion Loss* (dB)</td>
<td>DC - 18</td>
<td></td>
<td>2.2</td>
</tr>
<tr>
<td>Min Passband Return Loss (dB)</td>
<td>DC - 18</td>
<td>15</td>
<td></td>
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<tr>
<td>Stopband Attenuation (dB)</td>
<td>20.5 - 40</td>
<td>25</td>
<td></td>
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<tr>
<td>Size (LxWxH)</td>
<td>0.220 x 0.140 x 0.098 in</td>
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<td></td>
<td>5.58 x 3.55 x 2.49 mm</td>
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</table>

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

Typical Measured Performance
18GHz Surface Mount LPF
L185XF4S

Physical Dimensions

Typical Passband Performance

Typical Group Delay

Recommended PCB Layout

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