## Ceramic Low Pass Filter

### LFTC-1700+

**50Ω** DC to 1700 MHz

### Maximum Ratings

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>-55°C to 100°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>-55°C to 125°C</td>
</tr>
</tbody>
</table>

**Permanent damage may occur if any of these limits are exceeded.**

### Pin Connections

- **RF IN**
- **RF OUT**
- **GROUND**

### Outline Dimensions (inch)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>.150</td>
<td>.150</td>
<td>.034</td>
<td>—</td>
<td>—</td>
<td>.035</td>
<td>.028</td>
<td>—</td>
</tr>
<tr>
<td>3.81</td>
<td>3.81</td>
<td>.086</td>
<td>—</td>
<td>—</td>
<td>.89</td>
<td>.71</td>
<td>—</td>
</tr>
<tr>
<td>.060</td>
<td>.030</td>
<td>.184</td>
<td>.050</td>
<td>.075</td>
<td>.044</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1.52</td>
<td>0.76</td>
<td>4.67</td>
<td>1.27</td>
<td>1.91</td>
<td>1.12</td>
<td>0.15</td>
<td></td>
</tr>
</tbody>
</table>

### Features
- miniature size, 0.15”X0.15”X0.034”
- low profile, 0.034” height
- excellent power handling, 14W
- hermetically sealed

### Applications
- harmonic rejection
- internal rejection
- receivers & transmitters

### Electrical Specifications

<table>
<thead>
<tr>
<th>PASSBAND (MHz)</th>
<th>fco, MHz Nom. (loss &lt; 1 dB)</th>
<th>STOP BAND (MHz)</th>
<th>f20 dB</th>
<th>VSWR (:1) Passband</th>
<th>POWER INPUT* (W)</th>
<th>MARKING</th>
<th>NO OF SECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-1700</td>
<td>1980</td>
<td>2700</td>
<td>3300-3750</td>
<td>7200</td>
<td>1.2</td>
<td>14</td>
<td>LF4</td>
</tr>
</tbody>
</table>

* Denote linearly to 6W at 100°C ambient.


### Typical Performance Data at 25°C

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Insertion Loss (dB)</th>
<th>VSWR (:1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>0.04</td>
<td>1.01</td>
</tr>
<tr>
<td>1000.00</td>
<td>0.43</td>
<td>1.17</td>
</tr>
<tr>
<td>1700.00</td>
<td>0.82</td>
<td>1.17</td>
</tr>
<tr>
<td>1980.00</td>
<td>2.94</td>
<td>3.21</td>
</tr>
<tr>
<td>2700.00</td>
<td>24.07</td>
<td>36.29</td>
</tr>
<tr>
<td>3300.00</td>
<td>44.62</td>
<td>45.32</td>
</tr>
<tr>
<td>3680.00</td>
<td>43.57</td>
<td>48.21</td>
</tr>
<tr>
<td>5000.00</td>
<td>36.48</td>
<td>59.14</td>
</tr>
<tr>
<td>7200.00</td>
<td>24.33</td>
<td>45.18</td>
</tr>
<tr>
<td>9000.00</td>
<td>8.94</td>
<td>7.75</td>
</tr>
</tbody>
</table>

### Typical Frequency Response

- **INSERTION LOSS**
- **VSWR**

### Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit’s applicable established test performance criteria and measurement instructions.
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