**DESCRIPTION**

The LF series offers a variety of transformer configurations over the 10 KHz to 100 MHz frequency range.

Typical applications are: Interstage coupling, voltage/current transformation, and pulse transformation.

The transformer circuitry is packaged in an epoxy housing. All models are designed to meet MIL-T-55631 and are recommended for use over the -54°C to +100°C temperature range.

**GUARANTEED MINIMUM PERFORMANCE DATA**

**SPECIFICATIONS FOR MODEL LF-428**
- Type: 50 ohm unbalanced
- 200 ohm balanced
- DC isolated
- -1 dB Bandwidth, MHz: .01-50
- Midband insertion loss dB: .5
- Amplitude unbalance dB: 1.0
- Phase unbalance (deviation from 180°): 10
- VSWR: 2.1

**SPECIFICATIONS FOR MODEL LF-432**
- Type: 50 ohm unbalanced
- 600 ohm balanced
- DC isolated
- -1 dB Bandwidth, MHz: .01-25
- Midband insertion loss dB: .75
- Amplitude unbalance dB: .75
- Phase unbalance (deviation from 180°): 15
- VSWR: 1.5:1

**NOTE:**
- -1 dB bandwidth is measured relative to midband loss.

**ABSOLUTE MAXIMUM RATINGS:**
- Input power 2 w, limited by (Ipk2 + Ip2)2 ≤ Pmax.
- Temperature range: -54°C to +100°C

**ENVIRONMENTAL CONDITIONS**

**GUARANTEED ENVIRONMENTAL PERFORMANCE:**
All units are designed to meet their specifications over -54°C to +100°C and after exposure to any or all of the following tests per MIL-STD-202E.

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Method</th>
<th>Condition</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Shock</td>
<td>107D</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Altitude</td>
<td>105C</td>
<td>G</td>
<td></td>
</tr>
<tr>
<td>H.F. Vibration</td>
<td>204C</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>Mechanical Shock</td>
<td>213B</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Random Vibration</td>
<td>214</td>
<td>IIF</td>
<td></td>
</tr>
<tr>
<td>(15 minutes per axis)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solderability</td>
<td>208C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terminal Strength</td>
<td>211A</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Resistance to Soldering</td>
<td>210A</td>
<td>B</td>
<td></td>
</tr>
</tbody>
</table>

Sealed units, meet the requirements of Method 106D of MIL-STD-202E when exposed to humidity.

**FUNCTIONAL SCHEMATIC**

Specifications subject to change without notice.