FEATURES
- 2-26.5 GHz Frequency Coverage
- 2-26.5 GHz Broadband Tuning
- Low Cost and High Reliability
- Industry Standard 1.7 Inch Package

DESCRIPTION
The MICRO LAMBDA MLFP Series line of 6-stage YIG tuned bandpass filters cover octave and multioctave frequency bands from .5 to 26.5 GHz. Standard bands such as 2 to 18 GHz, 2 to 26.5 GHz, 6 to 18 GHz and 8 to 18 GHz for both the commercial and military user.

Standard YIG tuned filters are specified to operate from 0 to +65°C. However, all Micro Lambda YIG tuned filters can be furnished to military specifications such as MIL-E-5400 and MIL-E-16400 with operating temperature range of –54° C to +85°C.

All filters can be furnished stand alone or with integrated drivers.

ELECTRICAL AND PERFORMANCE SPECIFICATIONS
Guaranteed Specifications at –0º to +65º C Case Temperature (Note 2)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>MLFP-62018</th>
<th>MLFP-62026</th>
<th>MLFP-66018</th>
<th>MLFP-68018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range, Min.</td>
<td>2-18 GHz</td>
<td>2-26.5 GHz</td>
<td>6-18 GHz</td>
<td>8-18 GHz</td>
</tr>
<tr>
<td>No. of Stages</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>3dB Bandwidth, Min. (Note 1)</td>
<td>50 MHz</td>
<td>30 MHz</td>
<td>100 MHz</td>
<td>500 MHz</td>
</tr>
<tr>
<td>Insertion Loss, Max.</td>
<td>7 dB</td>
<td>8 dB</td>
<td>6 dB</td>
<td>7 dB</td>
</tr>
<tr>
<td>Passband Spurs &amp; Ripple, Max.</td>
<td>2.0 dB</td>
<td>2.0 dB</td>
<td>2.0 dB</td>
<td>2.5 dB</td>
</tr>
<tr>
<td>Passband VSWR, Max.</td>
<td>2:1</td>
<td>2:1</td>
<td>2:1</td>
<td>2:1</td>
</tr>
<tr>
<td>Selectivity, Typ.</td>
<td>36 dB/ Octave</td>
<td>36 dB/ Octave</td>
<td>36 dB/ Octave</td>
<td>36 dB/ Octave</td>
</tr>
<tr>
<td>Off Resonance Isolation, Min.</td>
<td>100 dB</td>
<td>100 dB</td>
<td>100 dB</td>
<td>100 dB</td>
</tr>
<tr>
<td>Off Resonance Spurious, Min.</td>
<td>70 dB</td>
<td>60 dB</td>
<td>70 dB</td>
<td>60 dB</td>
</tr>
<tr>
<td>Limiting Level, Min.</td>
<td>+10 dBm</td>
<td>+10 dBm</td>
<td>+10 dBm</td>
<td>+10 dBm</td>
</tr>
</tbody>
</table>

Tuning Coil Characteristics
- Tuning Sensitivity, Typ. 20 MHz/mA 20 MHz/mA 20 MHz/mA 20 MHz/mA
- Linearity, Max. +/- 15 MHz +/- 50 MHz +/- 25 MHz +/- 20 MHz
- Hysteresis, Typ. 20 MHz 30 MHz 15 MHz 15 MHz
- Temperature Drift, Max. 20 MHz 30 MHz 20 MHz 20 MHz
- Coil Resistance, Typ. 5 Ohms 8 Ohms 5 Ohms 5 Ohms
- Coil Inductance, Typ. 40 mH 150 mH 40 mH 40 mH

Heater Voltage
- Heater Current-Surge, Max. @ 25 deg. C. 300 mA 300 mA 300 mA 300 mA
- Steady State @ 25 deg. C. 100 mA 100 mA 100 mA 100 mA

Case Style 21-017 21-012-1 21-017 21-017

Note: 1) Modified 3 dB Bandwidths Available.
2) -54°C to +85°C temperature available.
CASE DRAWING 21-017 / 21-012-1

**CASE** | **A** | **WEIGHT**
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21-017 | 1.20 | 12 oz.
21-012-1 | 1.70 | 15 oz.

* POSITION OF E1 & E2
SELECTED AT FACTORY FOR COIL POLARITY