



# MICRO LAMBDA WIRELESS, INC.

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## Bandpass Filter Specification

MODEL NO.

**MLFP-62008**

Rev -

Base model no.

Catalog

RoHS Compliant

### RF Parameters

Frequency Range	<u>2.0 - 8.0</u> GHz			
No. of Stages	<u>6</u>			
3-dB Bandwidth	<u>50</u> MHz	<input checked="" type="checkbox"/> min	<input type="checkbox"/> typ	<input type="checkbox"/> max
3-dB Bandwidth	<u>        </u> MHz	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Insertion Loss	<u>7.0</u> dB	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Passband Ripple and Spurious (over 85% of centered 3dB BW)	<u>2.0</u> dB	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Passband VSWR	<u>2.0:1</u>	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Selectivity	<u>36</u> dB / Octave			
Off Resonance Isolation	<u>100</u> dB	<input checked="" type="checkbox"/> min	<input type="checkbox"/> typ	<input type="checkbox"/> max
Off Resonance Spurious	<u>70</u> dB	<input checked="" type="checkbox"/> min	<input type="checkbox"/> typ	<input type="checkbox"/> max
Limiting Level	<u>+10</u> dBm	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Max Power No Damage Level	<u>+30</u> dBm			
Linearity	<u>+/- 8</u> MHz	<input type="checkbox"/> max	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Hysteresis	<u>10</u> MHz	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> typ	<input type="checkbox"/> max
Temperature drift	<u>15</u> MHz	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Magnetic Susceptibility	<u>100</u> kHz/Gauss			

### Tuning Coil Characteristics

Sensitivity (+/- 10%)	<u>20</u> MHz/mA	<input type="checkbox"/> min	<input checked="" type="checkbox"/> typ	<input type="checkbox"/> max
Coil Resistance	<u>5</u> Ohm	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> typ	<input type="checkbox"/> max
Coil Impedance	<u>40</u> mH	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> typ	<input type="checkbox"/> max
Feedthrough Capacitance	<u>100</u> pf			

### Heater Voltage & Current

Yig Heater Power	<u>24</u> Vdc	<u>+/- 4</u> Vdc	
Current @ Surge	<u>300</u> mA	@ <u>+25</u> °C	<input checked="" type="checkbox"/> max
Current @ Steady State	<u>100</u> mA	@ <u>+25</u> °C	<input checked="" type="checkbox"/> max
Feedthrough Capacitance	<u>100</u> pf		

**Screening**

N/A

N/A

MLW Screening

Procedure 110.012

Customer Screening

Procedure #

Revision \_\_\_\_\_

Military

**Testing**

Level 1 - No Data

Level 2 - Sample Data

Per Lot of \_\_\_\_\_

Level 3 - Summary Data

Level 4 - Standard Test Data

Level 5 - Special Test Requirements

**Marking**

Standard Labeling

MDL, S/N, D/C, Warranty, ESD if Req'd

Special Labeling

Customer Part Number

Revision

Customer Cage Code

Micro Lambda Cage Code

RoHS

**Environmental**

Comm. Operating Temp (case)

0

°C to

+65 °C

**Case**

Outline Drawing # 21-017 Filter/Driver

12 oz Weight

**Notes:**