



# MICRO LAMBDA WIRELESS, INC.

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## BANDPASS FILTER SPECIFICATION

**MODEL NO.** MLFP-60520 Rev A  
**Base model no.** \_\_\_\_\_  
**Customer** Catalog Date 09-16-14  
**Customer P/N** \_\_\_\_\_

Frequency Range	<u>0.5 - 2.0</u> GHz			
No. of Stages	<u>6</u>			
3-dB Bandwidth	<u>20</u> MHz	<input checked="" type="checkbox"/> min	<input type="checkbox"/> typ	<input type="checkbox"/> max
3-dB Bandwidth	<u>n/a</u> MHz	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Insertion Loss	<u>10</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</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>42</u> dB / Octave	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Off Resonance Isolation	<u>100</u> dB	<input checked="" type="checkbox"/> min	<input type="checkbox"/> typ	<input type="checkbox"/> max
Off Resonance Spurs				
@ _____ MHz of Fc	<u>n/a</u> dB	<input checked="" type="checkbox"/> min	<input type="checkbox"/> typ	<input type="checkbox"/> max
@ all other Freq's	<u>70</u> dB	<input checked="" type="checkbox"/> min	<input type="checkbox"/> typ	<input type="checkbox"/> max
Group Delay	<u>n/a</u> nS	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input type="checkbox"/> max
Limiting Level	<u>0</u> dBm	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
No permanent damage level	<u>+20</u> dBm	<input type="checkbox"/> min	<input checked="" type="checkbox"/> typ	<input type="checkbox"/> max
Linearity	<u>+/- 4</u> MHz	<input type="checkbox"/> max	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Hysteresis	<u>4</u> MHz	<input type="checkbox"/> min	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max
Temperature Drift	<u>10</u> MHz	<input type="checkbox"/> max	<input type="checkbox"/> typ	<input checked="" type="checkbox"/> max

<b><u>Tuning Coil Characteristics</u></b>				
Tuning 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			

<b><u>Heater Voltage &amp; Current</u></b>				
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			

**Testing**

<input type="checkbox"/>	Level 1 - No Data, C of C	_____
<input checked="" type="checkbox"/>	Level 2 - Standard Test Data, C of C	_____
<input type="checkbox"/>	Level 3 - Special Test Requirements, C of C	_____
		_____
		_____

**Marking**

<input checked="" type="checkbox"/>	Standard Labeling	Model Number, Serial Number, Date Code, Warranty label, ESD if Req'd
<input type="checkbox"/>	Special Labeling	_____
<input type="checkbox"/>	RoHS	_____

**Environmental**

<input checked="" type="checkbox"/>	Comm. Operating Temp (case)	_____ 0 _____ °C	to	_____ +65 _____ °C
<input type="checkbox"/>	Extended Operating Temp(case)	_____ °C	to	_____ °C
<input type="checkbox"/>	Military Operating Temp (case)	_____ °C	to	_____ °C

**Screening**

<input checked="" type="checkbox"/>	N/A	_____
<input type="checkbox"/>	Commercial	_____
<input type="checkbox"/>	Military	_____
<input type="checkbox"/>	Customer Defined	_____

**Case**

Outline Drawing # 21-017 Filter 12 oz Weight

**Notes:**

Rev A issued to change 3dB BW from 25MHz to 20MHz  
\_\_\_\_\_  
\_\_\_\_\_