

# 2020 YIG-Tuned Filters



## Micro Lambda Wireless

# YIG Tuned Filters 350 MHz to 50 GHz

Micro Lambda Wireless offers a very extensive YIG-Tuned Filter product line with standard designs covering from 350 MHz to 50 GHz. Various package configurations utilizing from 2 stages to 8 stages in the band pass filter product lines and up to 16 stages in the band reject filter products make Micro Lambda's YIG-Tuned filter offering the largest on the Market today. Miniature filters covering 1 GHz to 8 GHz, permanent magnet filters covering 4 GHz to 16 GHz, standard electromagnetic filters covering 500 MHz to 50 GHz and band reject filters covering 350 MHz to 20 GHz are offered. Electrical specifications can be tailored to customer specific requirements and most filter configurations will meet both the commercial and military temperature ranges and environments. This product guide is a quick "snap-shot" of what is currently offered in our extensive filter product line. For more detailed filter specifications and new products, visit our website at [www.microlambdawireless.com](http://www.microlambdawireless.com)

### 350 MHz to 20 GHz "Ultra Notch" Band Reject Filters



New series of Band Reject (Notch) Filters are now available with superior notch depths and bandwidths. Octave and multi-octave bands are offered over the 350 MHz to 20 GHz frequency range. Standard 1.7" or 1.7" low profile packages with SMA connectors are provided. Notch depths of 50 dB to 60 dB are available with up to 24 stages provided in some models.

Product	Frequency	Notch/Width
MLUN-Series	350 MHz to 20 GHz	50 dB / 2-37 MHz 60 dB / 5-17 MHz

### 500 MHz to 50 GHz Bench Test Filters



MLBFP Series Bandpass and MLBFR Series BandReject Bench Test Filters are available covering 500 MHz to 50 GHz and 500 MHz to 20 GHz respectively. They are ideal for production test sets, lab tests and test equipment racks where filtering of microwave signals are essential. Units are very simply plugged into a standard electrical outlet and you are ready to go. Tuning is accomplished via tuning knob, keyboard, USB or ethernet. All units are "Labview" compatible, and CE certified.

### 1 GHz to 8 GHz Miniature Electromagnetic YIG-Tuned Filters



Smallest production filters on the Market. 4 stage and 6 stage models are offered in a 1.25" x 1.25" x .56" high package. 20 MHz minimum 3 dB bandwidths are provided. The low profile size make these filters ideal for VXI, VME and the new PXI and PCI applications. Commercial and extended temperature ranges are available as special order.

Product	Frequency	Rejection
MLFI Series 4 stage	1 GHz to 8 GHz	80 dB
MLFI-Series 6 Stage	1 GHz to 8 GHz	100 dB

## 500 MHz to 50 GHz Standard Configuration Electromagnetic YIG-Tuned Bandpass Filters



Industry standard 1" cube, 1.2" low profile, 1.4" cube, 1.7" cube and 2" cube package styles are offered. Tuning bands in the octave, multi-octave and ultra wide band configurations are standard throughout the product line. 2, 4, 6, 7 and 8 stage designs are available providing from 45 dB to over 120 dB rejection. Dual Channel, Low Ripple and Millimeter Wave configurations make these standard filter designs the largest filter offering on the market today.

Product	Frequency	Rejection
<b>MLFM-Series</b>	.5 GHz to 18 GHz	70-80 dB
<b>MLFP-Series 2 stage</b>	.5 GHz to 26.5 GHz	45 dB
<b>MLFP-Series 4 stage</b>	.5 GHz to 26.5 GHz	70-80 dB
<b>MLFP-Series 6 stage</b>	2 GHz to 26.5 GHz	100 dB
<b>MLFP-Series 7 stage</b>	2 GHz to 26.5 GHz	100 dB
<b>MLFP-Series Low Ripple</b>	6 GHz to 20 GHz	100 dB
<b>MLFP-Series Millimeter Wave</b>	3 GHz to 50 GHz	80 dB
<b>MLFD-Series Dual Two</b>	500 MHz to 18 GHz	50-70 dB
<b>MLFRC-Series Field Replaceable Connectors</b>	Up to 26.5 GHz	45-100 dB

## 500 MHz to 20 GHz Electromagnetic YIG-Tuned Band Reject Filters



Band Reject (Notch) filters are offered covering the 2 to 20 GHz frequency range. Octave, multi-octave and full band designs are available as standard products. All designs are offered in a 1.4" cube standard package with SMA connectors. Precise notch depths of 40 dB are offered with up to 16 stages in some models available.

Product	Frequency	Notch/Width
<b>MLFR-Series Octave Band</b>	2 GHz to 18 GHz	40 dB/15 MHz
<b>MLFR-Series Multi-Octave Band</b>	.5 GHz to 18 GHz	40 dB/ 7 MHz
<b>MLFR-Series Wideband</b>	2 GHz to 20 GHz	40 dB/ 5 MHz
<b>MLFR-Series Ultra-Notch</b>	6 GHz to 12 GHz	70 dB/70 MHz
<b>MLFRD-Series Dual Channel</b>	2 GHz to 18 GHz	40 dB/5-15 MHz

## Standard Driver Configurations for YIG-Tuned Filters, Analog, TTL Digital and Serial Interfaces/Commercial & Military



All Micro Lambda Filters are available with integrated driver interfaces. Integrating a filter with a driver at the factory insures operating temperature performance prior to shipment. It precludes the need for customers to design their own driver circuits and integrate themselves. Commercial and military driver configurations are available. See our extensive driver listings in our catalog or on-line at our web-site at [www.microlambdawireless.com](http://www.microlambdawireless.com)



Micro Lambda Wireless was founded with the purpose of supplying the microwave community with technically superior products at reasonable prices with the highest regard to customer service and quality. Products include YIG oscillators, YIG bandpass & band reject filters, frequency multipliers and frequency synthesizers.

Micro Lambda Wireless is the largest independent supplier of YIG components in the world! Over 20,000 YIG-based components and assemblies delivered annually.

For additional information on Micro Lambda Wireless, please contact the factory or one of our regional sales offices.

[www.microlambdawireless.com](http://www.microlambdawireless.com)



46515 Landing Parkway  
Fremont, CA 94538  
Tel: (510) 770-9221  
Fax: (510) 770-9213  
Email: [sales@microlambdawireless.com](mailto:sales@microlambdawireless.com)