



MICRO LAMBDA WIRELESS, INC.

MLFR SERIES ULTRA NOTCH YIG BAND REJECT FILTERS 6-12 GHz



FEATURES

- 6-12 GHz Frequency Coverage
- Excellent Linearity
- 1.4" Cube Package
- Up to 16 Stages

DESCRIPTION

The MICRO LAMBDA Ultra Notch Series of Band Reject filters cover the frequency range of 6-12 GHz. These filters offer very deep notch depth and precise bandwidths for rejection of unwanted signals. Standard frequency bands of 5.9-6.4 GHz, 7.9-8.4 GHz and 8.9-9.6 GHz are provided. 3 dB bandwidths of 300 MHz with 40 dB bandwidths of 70 MHz are available in standard designs.

These filters are well suited for broadband receivers and a variety of EW system applications. Standard configuration of 1.4" cubes are provided and can also be ordered with an Analog or Digital Driver.

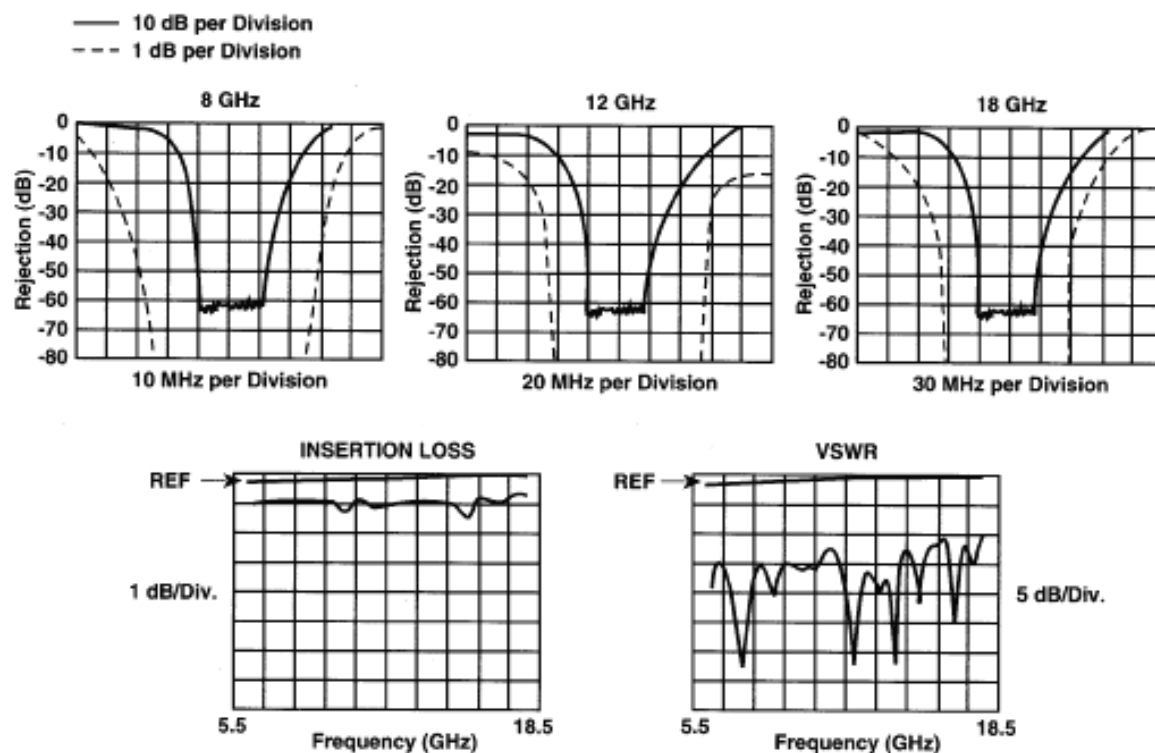
ELECTRICAL AND PERFORMANCE SPECIFICATIONS

Guaranteed Specifications at -0° to $+65^{\circ}$ C Case Temperature

Model No.	MLFR-5964	MLFR-7984	MLFR-8996
Frequency Range, Min.	5.9-6.4 GHz	7.9-8.4 GHz	8.9-9.6 GHz
Reject Bandwidth			
@ 70 dB, Min.	70 MHz	70 MHz	70 MHz
@ 3 dB, Max.	300 MHz	300 MHz	300 MHz
Passband VSWR, Max.	2:1	2:1	2:1
Passband Insertion Loss, Max.	1.5 dB	1.5 dB	1.5 dB
Passband Range	DC-12 GHz	DC-12 GHz	DC-12 GHz
Spurious, Max	4 dB	4 dB	4 dB
Limiting Level, Min.	+13 dBm	+13 dBm	+13 dBm
Max. Input Power, No Damage.	+30 dBm	+30 dBm	+30 dBm
Tuning Coil Characteristics			
Tuning Sensitivity, Typ.	20 MHz/mA	20 MHz/mA	20 MHz/mA
Linearity, Max.	+/- 1 MHz	+/- 1 MHz	+/- 1 MHz
Hysteresis, Typ.	1 MHz	1 MHz	1 MHz
Temperature Drift (0 to 60 deg. C), Max.	15 MHz	15 MHz	15 MHz
Coil Resistance, Typ.	7 Ohms	7 Ohms	6 Ohms
Coil Inductance, Typ.	70 mH	70 mH	60 mH
Heater Voltage	+28 Vdc	+28 Vdc	+28 Vdc
Heater Current-Surge, Max. @ 25 deg. C.	300 mA	300 mA	300 mA
Steady State @ 25 deg. C.	100 mA	100 mA	100 mA
Case Style (Note 1)	21-018	21-018	21-018

Note: 1.) 1.7" Case available.

Performance Graphs (Typical)



CASE DRAWING 21-018 / 21-019

