

## **FEATURES**

- 20-36 and 28-40 GHz Full Band Coverage
- Excellent Linearity
- 1.7" Low Profile

## MLFR SERIES MILLIMETER-WAVE YIG BAND REJECT FILTERS 20-40 GHz



## **DESCRIPTION**

The MICRO LAMBDA MLFR-Series of Millimeter-Wave Band Reject filters cover the frequency range of 20 GHz to 40 GHz in bands. These filters offer excellent notch depth and precise bandwidths for rejection of unwanted signals. 3 dB bandwidths are 100 MHz with 40 dB bandwidths of 15 MHz available in standard designs. These filters are well suited for broadband receivers and a variety of EW system applications. Standard configuration of 2.0" x 1.7" are provided and can also be ordered with an Analog, TTL Digital or Serial Driver.

## **ELECTRICAL AND PERFORMANCE SPECIFICATIONS**

Guaranteed Specifications at -0° to +60° C Case Temperature

Model No.	MLFR-2036	MLFR-2840
Frequency Range, Min.	20-36 GHz	28-40 GHz
Reject Bandwidth		
@ 40 dB, Min.	15 MHz	15 MHz
@ 3 dB, Max.	100 MHz	100 MHz
Passband VSWR, Max.	2.5:1	2.5:1
Passband Insertion Loss, Max.	3 dB	3 dB
Passband Range	20-42 GHz	20-42 GHz
Spurious, Max	4 dB	4 dB
Limiting Level, Min.	+10 dBm	+10 dBm
Max. Input Power, No Damage.	+28 dBm	+28 dBm
Tuning Coil Characteristics		
Tuning Sensitivity, Typ.	25 MHz/mA	25 MHz/mA
Linearity, Max.	+/- 5 MHz	+/- 5 MHz
Hysteresis, Typ.	15 MHz	17 MHz
Temperature Drift (0 to 60 deg. C), Max.	+/-20 MHz	+/-20 MHz
Coil Resistance, Typ.	4 Ohms	4 Ohms
Coil Inductance, Typ.	50 mH	50 mH
Heater Voltage	+28 Vdc	+28 Vdc
Heater Current-Surge, Max. @ 25 deg. C.	300 mA	300 mA
Steady State @ 25 deg. C.	100 mA	100 mA
Case Style	99-0021-162	99-0021-162





