

FEATURES

- 2-18 and 2-20 GHz Full Band Coverage
- Excellent Linearity
- 1.4" Cube Package
- Up to 16 Stages

2-20 GHz

MLFR SERIES WIDE BAND

YIG BAND REJECT FILTERS

DESCRIPTION

The MICRO LAMBDA MLFR-Series of Band Reject filters cover the frequency range of 2 GHz to 18 GHz and 2 GHz to 20 GHz. These filters offer excellent notch depth and precise bandwidths for rejection of unwanted signals. 3 dB bandwidths are 150 MHz with 40 dB bandwidths of 5 to 10 MHz are available in standard designs. Modified 3 dB and 40 dB bandwidths are available on special order. 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, TTL Digital or Serial Driver.

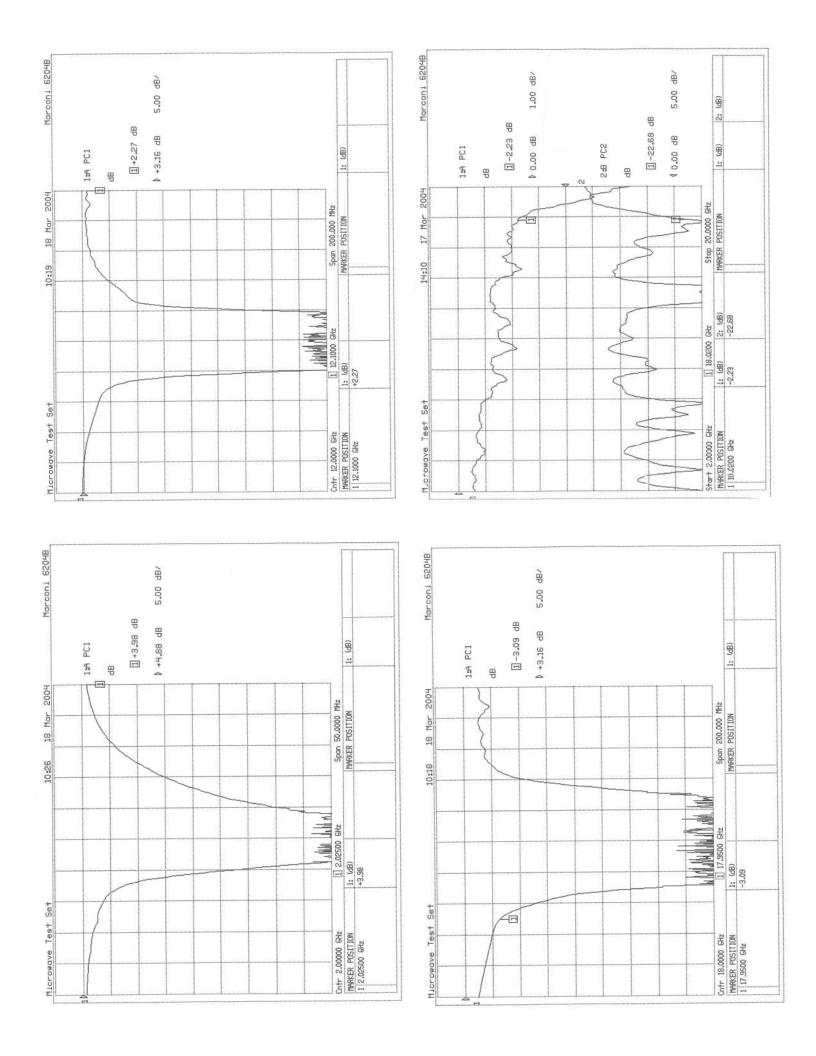
ELECTRICAL AND PERFORMANCE SPECIFICATIONS

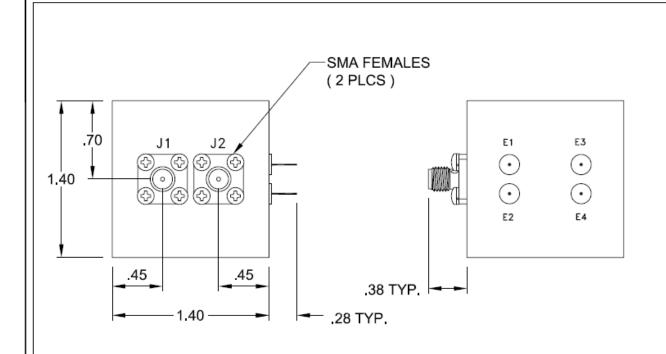
Guaranteed Specifications at -0° to +65° C Case Temperature (Note 1)

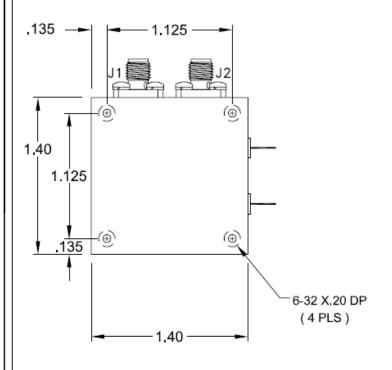
Model No.	MLFR-0218	MLFR-0220	
Frequency Range, Min.	2-18 GHz	2-20 GHz	
Reject Bandwidth			
@ 40 dB, Min.	10 MHz @ 2.0 GHz	5 MHz @ 2.0 GHz	
	50 MHz @ 18.0 GHz	40 MHz @ 20 GHz	
@ 3 dB, Max.	150 MHz	150 MHz	
Passband VSWR, Max.	2:1	2:1	
Passband Insertion Loss, Max.	2 dB	2 dB	
Passband Range	DC-18 GHz	DC-20 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.	20 MHz/mA	20 MHz/mA	
Linearity, Max.	+/- 6 MHz	+/- 6 MHz	
Hysteresis, Typ.	15 MHz	17 MHz	
Temperature Drift (0 to 60 deg. C), Max.	12 MHz	15 MHz	
Coil Resistance, Typ.	8 Ohms	8 Ohms	
Coil Inductance, Typ.	60 mH	60 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 (Note 2)	21-018	21-018	

Note: 1.) Extended Temp, Range Available.

2.) 1.7" Case available.





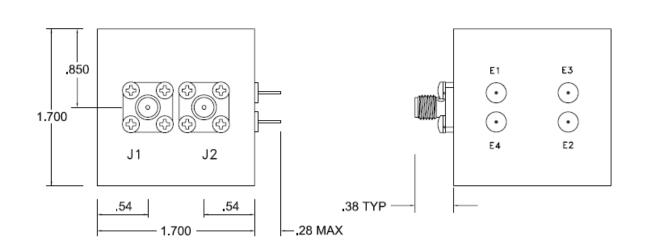


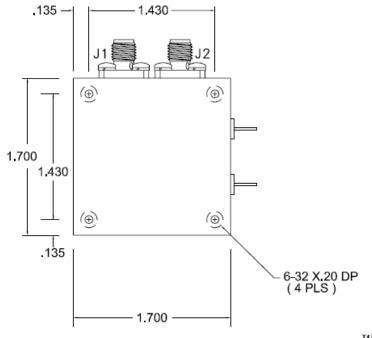
CONN	FUNCTIONS
J1	RF IN
J2	RF OUT
E1	+ COIL
E2	+ HEATER
E3	- HEATER
E4	- COIL

* POSITION OF E1 & E4 SELECTED AT FACTORY FOR COIL POLARITY

WEIGHT: 13 Oz. MAX

l	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE NINCHES TOLERANCE ARE: FRACTIONS DECIMALS ANGLES 200 200 200 200 200 200 200 200 200 200	CONTRACT NO.			MICRO LAM	O LAMBDA WIRELESS, INC.			
l	MATERIAL 005	APPROVALS	DATE						
ı	MATERIAL	DRAWN N.NGUYEN	10/21/05						
l	FINISH	CHECKED		BAND REJECT FILTER (1.4")					
l	rinian	ISSUED		SIZE	CAGE No	DWG. NO.	21 - 018	REV. C	
ı	DO NOT SCALE DRAWING				0RN63		2. 5.5		





CONN	FUNCTIONS
J1	RF IN
J2	RF OUT
E1	+ COIL
E2	- COIL
E3	HEATER
E4	HEATER

* POSITION OF E1 & E2 SELECTED AT FACTORY FOR COIL POLARITY

WEIGHT : 16 Oz. MAX

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN NORMS TOLLERANCE ARE: FRACTIONS DECIMALS ANGLES	CONTRACT NO.			MICROLAI	MBDA WIRELESS, INC.		
± 200 ± 010 2000 ± 0006	APPROVALS	DATE		WIOTO LA	VIDDA	viii (LLLCO, IIVO.	
MATERIAL CARPENTER 49	DRAWN N.NGUYEN	5/31/07					
FINISH	CHECKED		BAND REJECT FILTER (1.7")				
	ISSUED		SIZE	CAGE No ORN63	DWG, NO.	21 - 019	REV. B
DO NOT SCALE DRAWING				UKINOS			