

FEATURES

- Up to 26.5 GHz Frequency Coverage
- High Reliability

DESCRIPTION

The MICRO LAMBDA **MLFRC** Series line of 4-stage YIG tuned bandpass filters cover octave and multi-octave frequency bands from .5 to 26.5 GHz. The first Standard band covers the 6 to 26.5 GHz for both the commercial and military user.

Standard YIG tuned filters are specified to operate from 0 to +65°C. However, all Micro Lambda YIG tuned filters can be furnished to military specifications such as MIL-E-5400 and MIL-E-16400 with operating temperature range of -40°C to +85°C.

All filters can be furnished stand alone or with integrated drivers.

ELECTRICAL AND PERFORMANCE SPECIFICATIONS

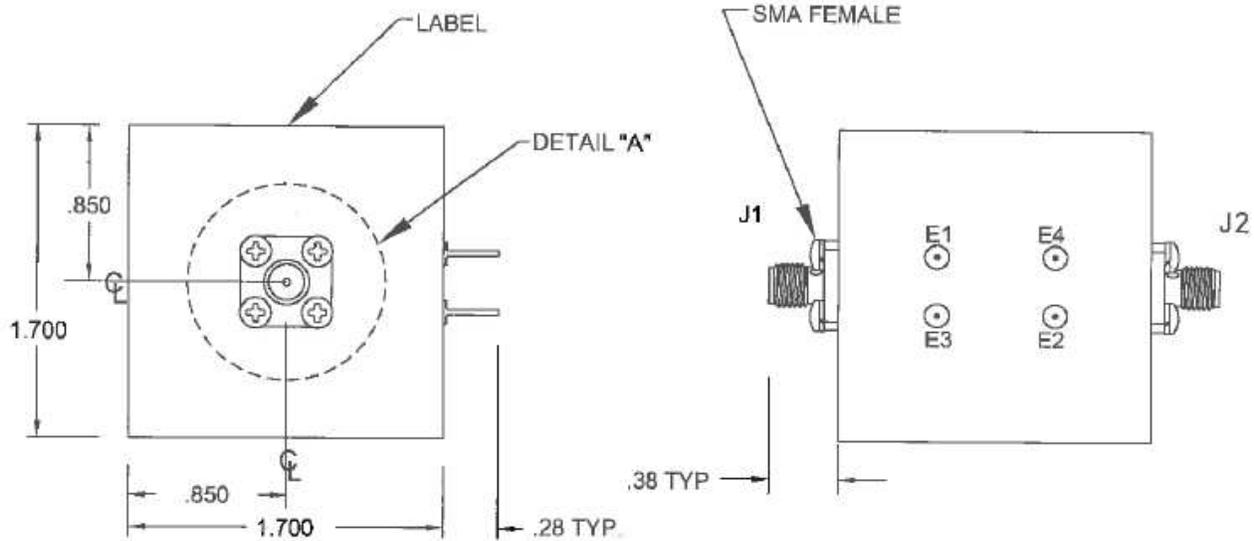
Guaranteed Specifications at -0° to +65° C Case Temperature (Note 2)

Model No.	MLFRC-42026	MLFRC-46026
Frequency Range, Min.	2-26.5	6-26.5 GHz
No. of Stages	4	4
3dB Bandwidth, Min. (Note 1)	25 MHz	50 MHz
Insertion Loss, Max.	6 dB	6 dB
Passband Spurs & Ripple, Max.	1.5 dB	1.5 dB
Passband VSWR, Max.	2:1	2:1
Selectivity, Typ.	24 dB/ Octave	24 dB/ Octave
Off Resonance Isolation, Min.	60 dB	60 dB
Off Resonance Spurious, Min.	40 dB	40 dB
Limiting Level, Min.	+10 dBm	+10 dBm
Tuning Coil Characteristics		
Tuning Sensitivity, Typ.	30 MHz/mA	30 MHz/mA
Linearity, Max.	+/- 20 MHz	+/- 20 MHz
Hysteresis, Typ.	25 MHz	25 MHz
Temperature Drift, Max.	30 MHz	30 MHz
Coil Resistance, Typ.	8 Ohms	8 Ohms
Coil Inductance, Typ.	150 mH	150 mH
Heater Voltage	20-30 Vdc	20-30 Vdc
Heater Current-Surge, Max @ 25 deg C	300 mA	300 mA
Steady State @ 25 deg. C	100 mA	100 mA
Case Style	99-0021-137	99-0021-137

Notes: 1) Modified 3 dB Bandwidths available.

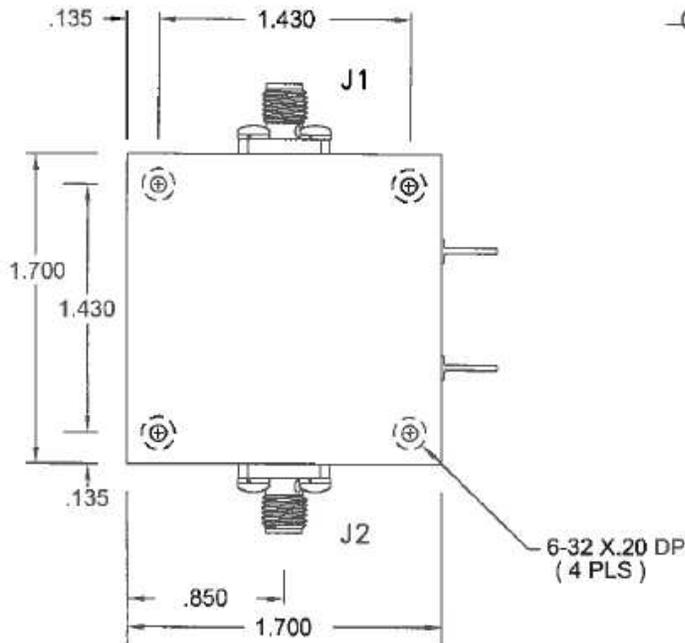
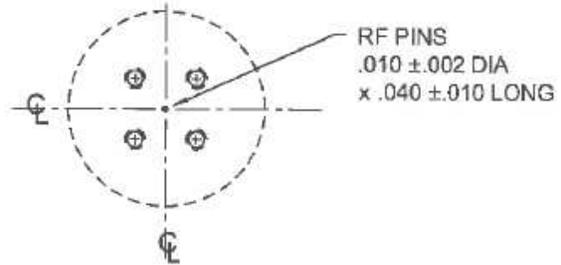
2) -40°C to +85°temperature available .





DETAIL "A" WITHOUT CONNECTOR

N.T.S.



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 : 18 Oz.(510 GRAMS) MAX

UNLESS OTHERWISE SPECIFIED DIMENSIONS
ARE IN INCHES
TOLERANCE ARE:
FRACTIONS DECIMALS ANGLES
+ .005 ± .010
° ± .05

CONTRACT NO.



MICRO LAMBDA WIRELESS, INC.

MATERIAL CARPENTER 48
FINISH
DO NOT SCALE DRAWING

APPROVALS
DRAWN N. NGUYEN 12/1/13
CHECKED [Signature] 12/1/13
ISSUED [Signature]

1.7" FILTER (FIELD REPLACEABLE CONNECTOR)

REV A
09N63 99-0021-137