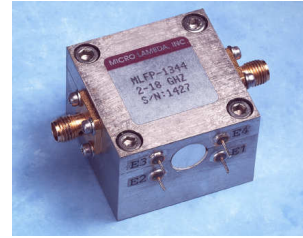


FEATURES

- .5-26.5 GHz Frequency Coverage
- 2-26.5 GHz Broadband Tuning
- Low Cost and High Reliability
- Industry Standard 1.4 Inch Package



DESCRIPTION

The MICRO LAMBDA **MLFP** Series line of 2-stage YIG tuned bandpass filters cover octave and multioctave frequency bands from .5 to 26.5 GHz. Standard bands such as .5 to 2 GHz, 2 to 18 GHz and 2 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 -54°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.	MLFP-20520	MLFP-22018	MLFP-22026
Frequency Range, Min.	.5-2 GHz	2-18 GHz	2-26.5 GHz
No. of Stages	2	2	2
3dB Bandwidth, Min. (Note 1)	20 MHz	20 MHz	20 MHz
Insertion Loss, Max.	4.0 dB	4.0 dB	4.0 dB
Passband Spurs & Ripple, Max.	1.5 dB	1.5 dB	1.5 dB
Passband VSWR, Max.	2:1	2:1	2:1
Selectivity, Typ.	12 dB/ Octave	12 dB/ Octave	12 dB/ Octave
Off Resonance Isolation, Min.	45 dB	45 dB	45 dB
Off Resonance Spurious, Min.	25 dB	25 dB	25 dB
Limiting Level, Min.	0 dBm	+10 dBm	+10 dBm
Tuning Coil Characteristics			
Tuning Sensitivity, Typ.	20 MHz/mA	20 MHz/mA	30 MHz/mA
Linearity, Max.	+/- 2 MHz	+/- 12 MHz	+/- 20 MHz
Hysteresis, Typ.	3 MHz	20 MHz	25 MHz
Temperature Drift, Max.	6 MHz	20 MHz	30 MHz
Coil Resistance, Typ.	14 Ohms	5 Ohms	8 Ohms
Coil Inductance, Typ.	60 mH	40 mH	150 mH
Heater Voltage	20-30 Vdc	20-30 Vdc	20-30 Vdc
Heater Current-Surge, Max. @ 25 deg. C.	200 mA	200 mA	200 mA
Steady State @ 25 deg. C.	50 mA	50 mA	50 mA
Case Style	21-015	21-015	21-013

Note: 1) Modified 3 dB Bandwidths available.

2) -54°C to +85°C temperature available.

CASE DRAWING 21-015 / 21-013

