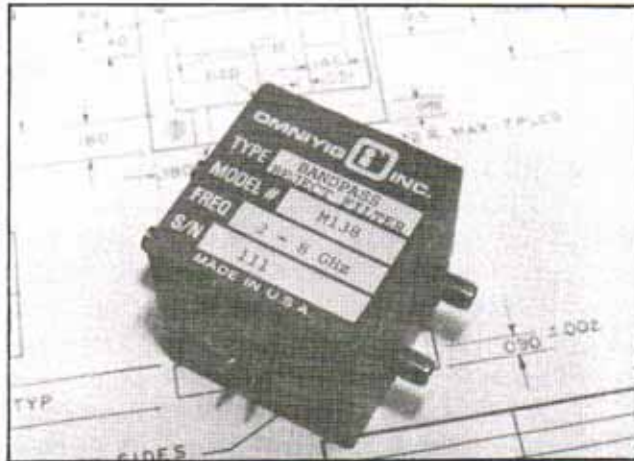


DUAL TRACKING BAND PASS/BAND REJECT YIG FILTERS

DUAL 10-STAGES

Octave and Multioctave Integral Drivers



OMNIYIG's newest standard line of integrated band Pass Band Reject YIG Filters are electronically tunable in octave and/or multioctave frequency range from 500 MHz to 18 GHz. These Band Pass/Band Reject YIG Filters consist of two units designed and integrated under a common tuning magnetic circuit. The Band Pass YIG Filter section is of a 4-Stage unit and the Band Reject section is of a 6-stage unit. We could also design various other number of stages to customer's requirements. Over 20 years of experience in YIG development has resulted in improved designs which exhibit excellent performance. Proprietary production

APPLICATIONS

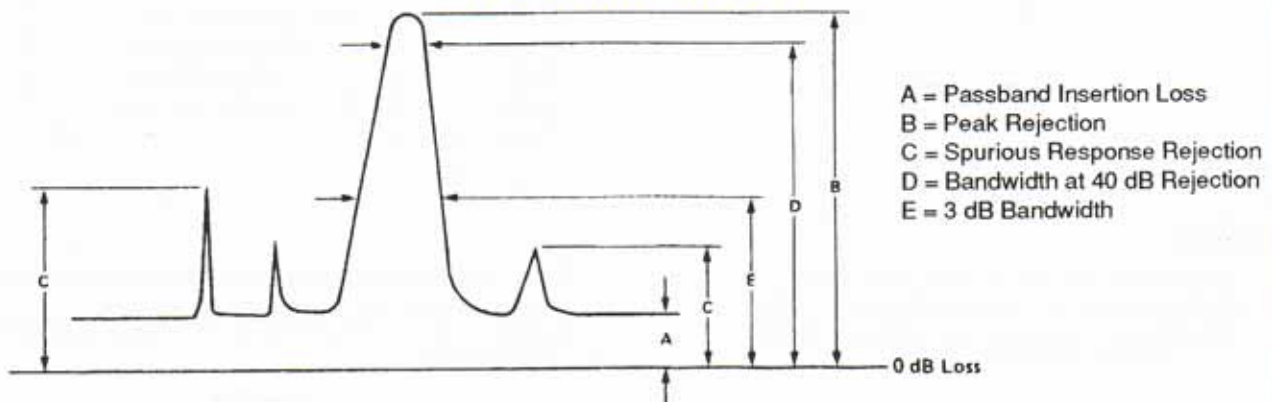
- Spectrum Analyzers
- Sweep Generators
- ECM Receivers
- Frequency Synthesizers
- Broadband Test Equipment

FEATURES

- Low Insertion Loss-1.0 dB in Some Models
- Frequency vs. Temperature Stability as Low as 200 KHz/°c
- Repeatable RF Performance from Unit to Unit
- Package Sizes Typically 1.7 inch³
- Qualification to MIL-E-5400, Class II Specification Available.

techniques enable OMNIYIG to give each customer higher quality YIG Band Reject Filters at very attractive prices. These compact packaged solid-state devices provide outstanding tuning linearity over one to five octave bands. Analog drivers and TTL drivers are available as integrated parts to the YIG Filter. Besides the standard line, OMNIYIG manufactures many special designs of Band Reject Filters, YIG Oscillators, Discriminators, YIG Bandpass Filters and other YIG designs. All devices can be qualified to MIL-E-5400, Class II specification.

PARAMETER DEFINITIONS BAND REJECT FILTER



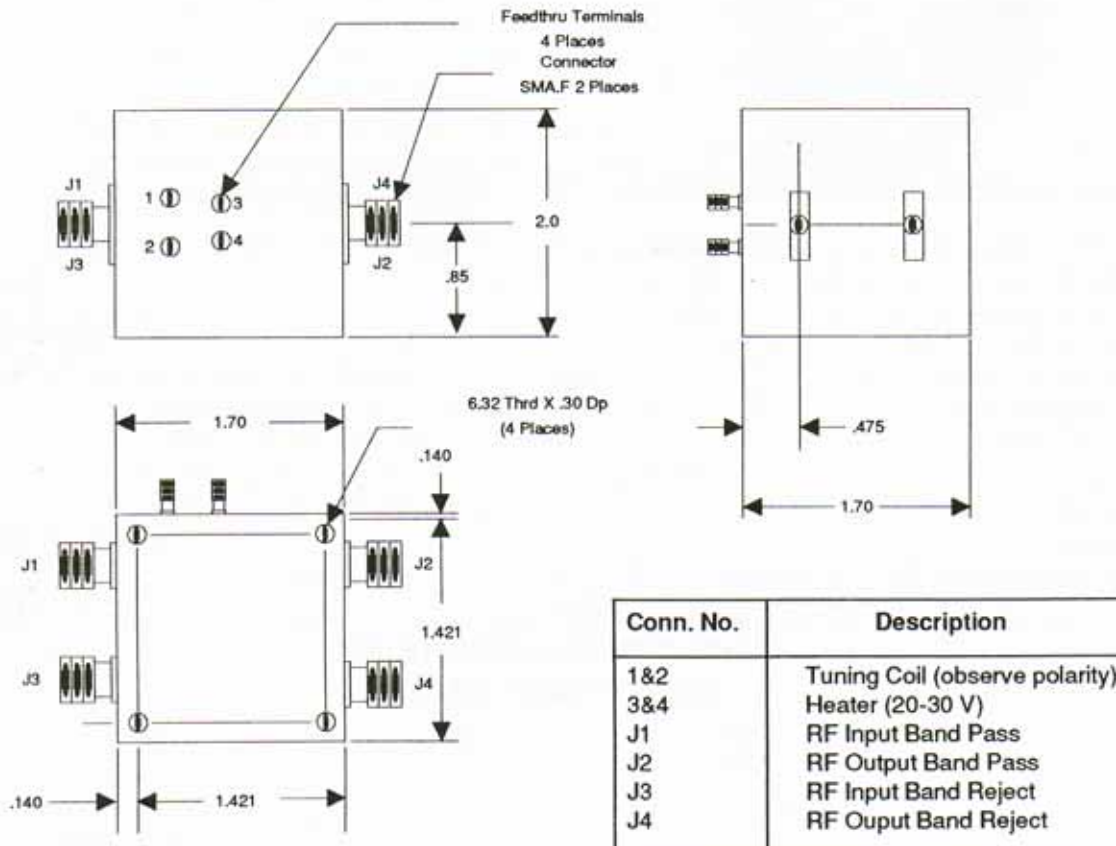
STANDARD DOUBLE OCTAVE BANDS^{6,4,5}

Type ^{1,6}	OMNIYIG Model No. ²	Frequency Range (GHz)	3dB BW Max. (MHz)	Insertion Loss Max. (dB)	Bandwidth At 30dB ³ (MHz)	Off Resonance Spurious Minimum (dB)	Frequency Drift 0° to 60° C (MHz)	VSWR	Weight (Oz.)	Outline
BAND PASS	M138	2-8	25-50	4.5	N/A	50	8	2.1:1	20	A
	M139	8-18	25-50	4.5	N/A	50	10	2.1:1	20	A
BAND REJECT	M138	2-8	125	1.5	20	4.5	8	2.5:1	20	A
	M139	8-18	150	1.5	20	4.5	10	2.5:1	20	A

Power Supply Requirements:

Tuning sensitivity (Typically)	22 MHz/ma
Heater Supply Voltage (unregulated)	22-30 V.
Heater Current	1.2 Amps.
5 Sec. Surge	100 ma max.
Steady State	

OUTLINE A



NOTES:

- ¹ All connectors are standard 3mm (SMA) female.
- ² Limiting levels for all units is greater than + 10 dBm.
- ³ Nominal bandwidths; other bandwidths are available.
- ⁴ Deviation from linear $\pm 0.1\%$.
- ⁵ Sweeping time required for bandpass to stabilize within 0.2% of full band step, 10 Mili seconds.
- ⁶ All units can be qualified to MIL-E-5400, Class II specification or special order.