

TECHNICAL DESCRIPTION / APPLICATION

MULTI-MIX[®] FILTERS

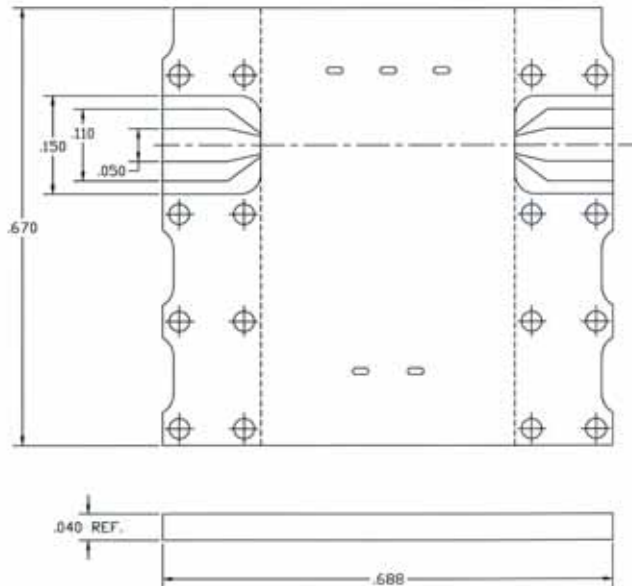
Merrimac's FBGI Series bandpass filters combine the features of Merrimac's patented Multi-Mix[®] multilayer fabrication technology with the ability to operate to three times their center frequency without reentrant spurious passbands. They typically offer better overall performance than filters designed to the same specification with conventional filter fabrication techniques.



GENERAL SPECIFICATIONS

FILTER TYPE	CENTER FREQUENCY	1 dB OPERATING BANDWIDTH (MHz MIN)	INSERTION LOSS @ CENTER FREQUENCY	REJECTION	PASSBAND INPUT/ OUTPUT VSWR
BANDPASS	3780 MHz Nominal	575	1.5 dB (MAX)	55 dB MIN. @ 2500 MHz 55 dB MIN. @ 5000 MHz	1.5:1 (TYP) @ Fc ± 0.2 GHz 2.0:1 (MAX) @ Fc ± 0.2 GHz
INPUT/OUTPUT IMPEDANCE	POWER LEVEL	SIZE (INCHES)	WEIGHT (GRAMS/OZ.)	RF INTERFACE/ CONNECTIONS	OPERATING TEMPERATURE
50 Ohms (NOM)	1 W (TYP)	0.67 x 0.69 x 0.04	0.8 / 0.03	SMT or 50 Ohm, co-planar waveguide launch with gold pads	-55° - +85° C

PACKAGE OUTLINE



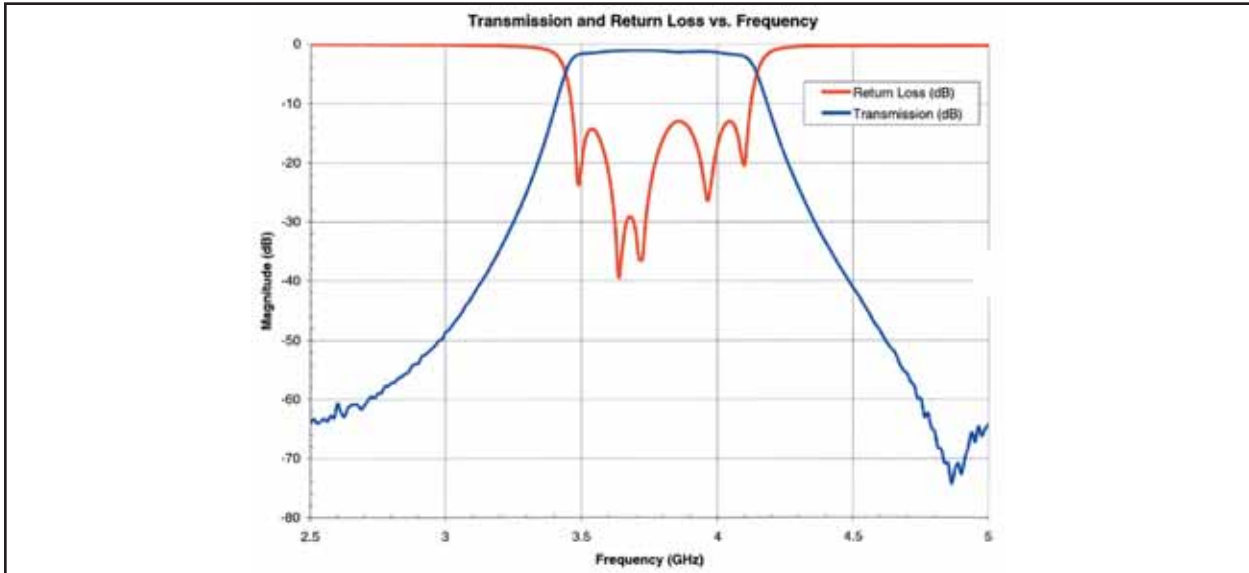
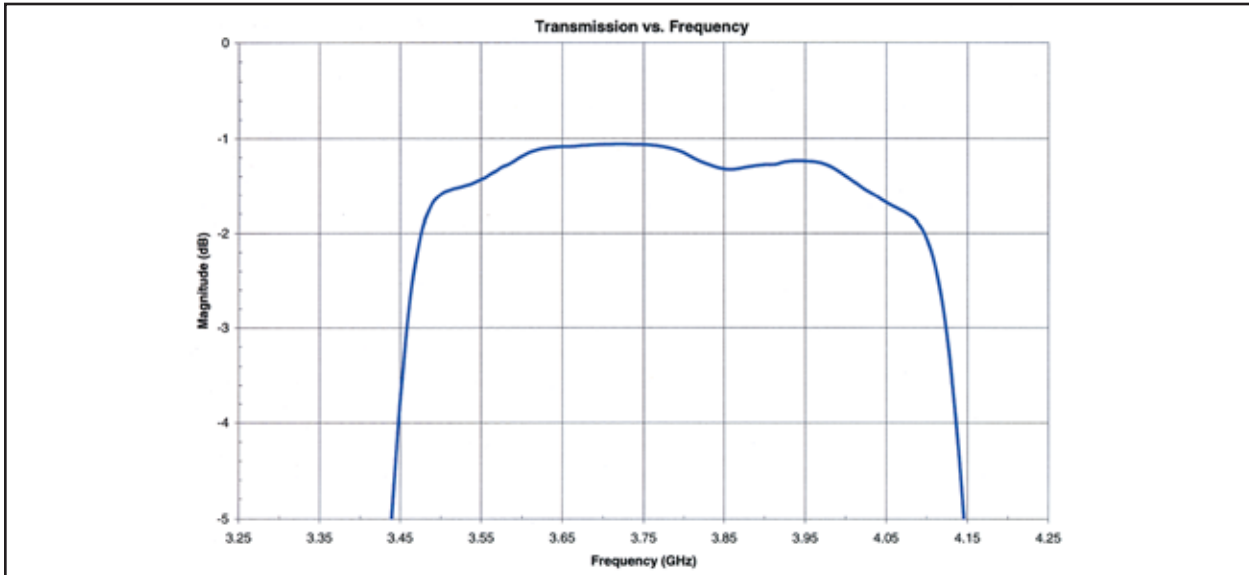
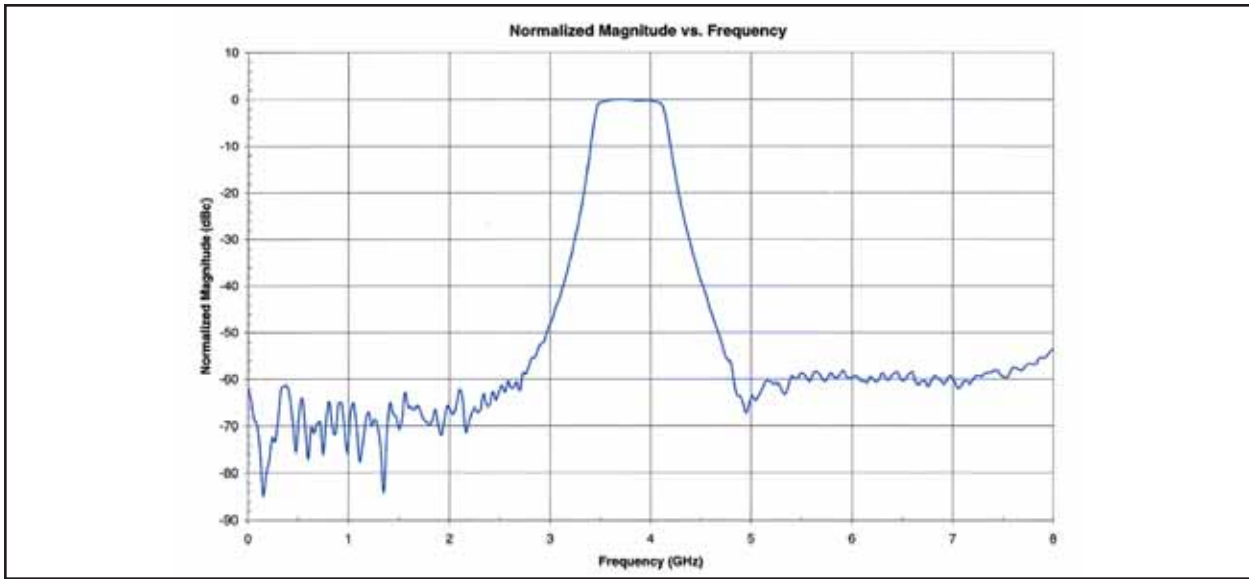
THE MULTI-MIX MICROTECHNOLOGY[®] GROUP IS ISO 9001:2000 REGISTERED



U.S. patent 6,099,677 and other patents pending.

TYPICAL PERFORMANCE

FBGI-3.78G



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