

## TECHNICAL DESCRIPTION / APPLICATION

### MULTI-MIX<sup>®</sup> FILTERS

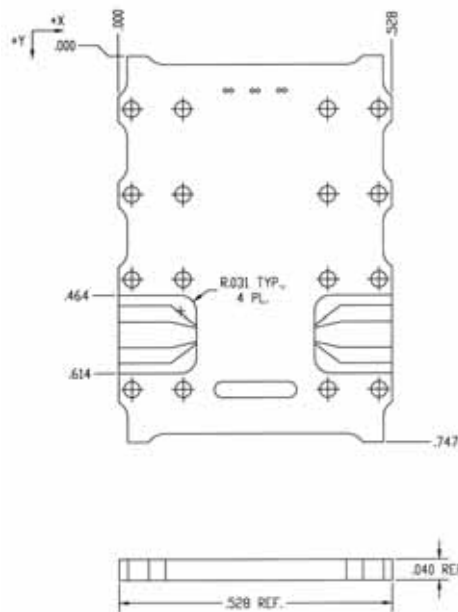
Merrimac's FGBC Series filters allow very wide stopband rejection to be achieved in very small enclosures without the appearance of reentrant spurious passbands. In addition, they require no tuning once incorporated in a circuit, making their already economical design even more cost-effective, especially in high-volume production. The FGBC Series filters incorporate all of the advantages provided by Merrimac's patented Multi-Mix<sup>®</sup> multilayer fabrication process, and are an excellent choice for applications in which size and weight are critical.



## GENERAL SPECIFICATIONS

FILTER TYPE	CENTER FREQUENCY	1 dB OPERATING BANDWIDTH (MHz MIN)	INSERTION LOSS @ CENTER FREQUENCY	REJECTION	IMPEDANCE
BANDPASS	1440 MHz Nominal	25	3.5 dB (TYP.) 4.0 dB (MAX.)	50 dB MIN. @ 1150 MHz 50 dB MIN. @ 1650 MHz	50 Ohms
PASSBAND INPUT/OUTPUT VSWR	POWER	SIZE (INCHES - L,W, H)	WEIGHT (GRAMS/OZ.)	RF INTERFACE/ CONNECTIONS	OPERATING TEMPERATURE
2.3:1 MAX.	TBS	0.75 X 0.53 X 0.04	0.7 / 0.02	SMT or 50 Ohm, co-planar waveguide launch with gold pads	-55° - +85° C

## PACKAGE OUTLINE



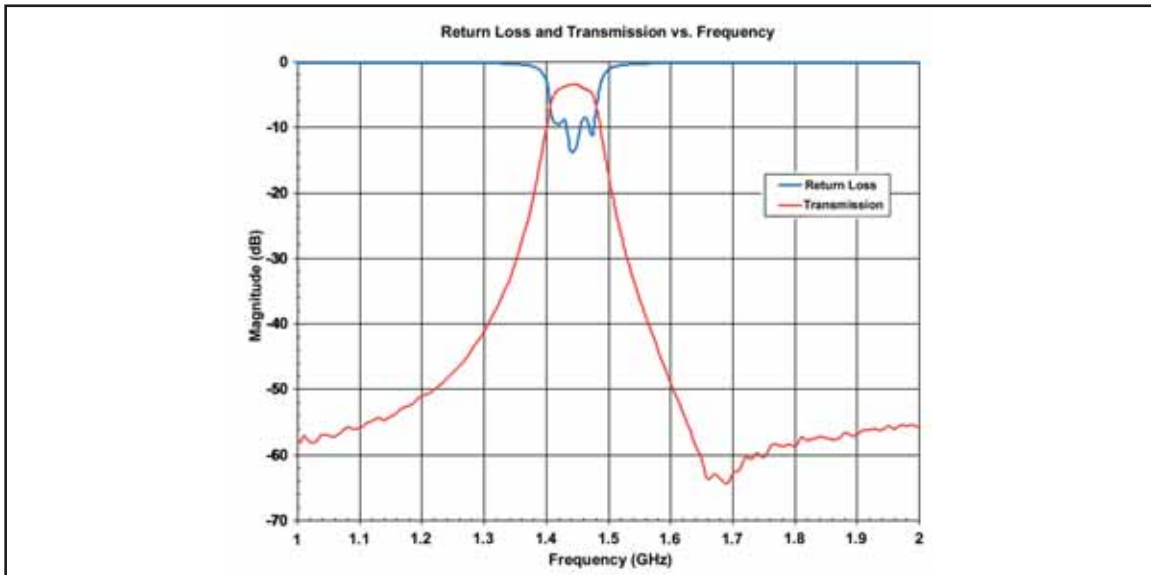
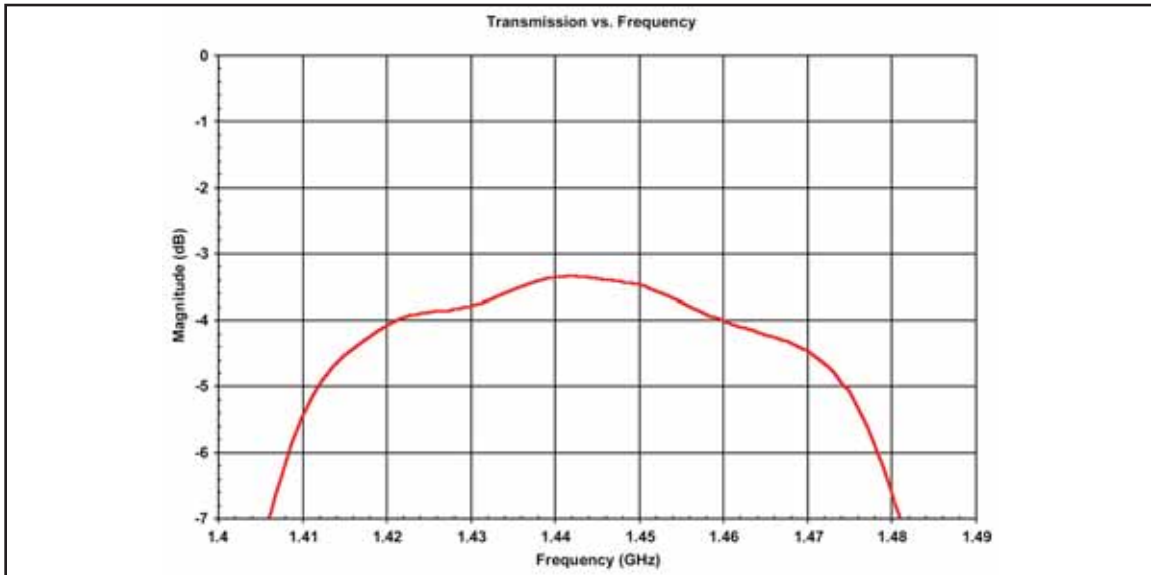
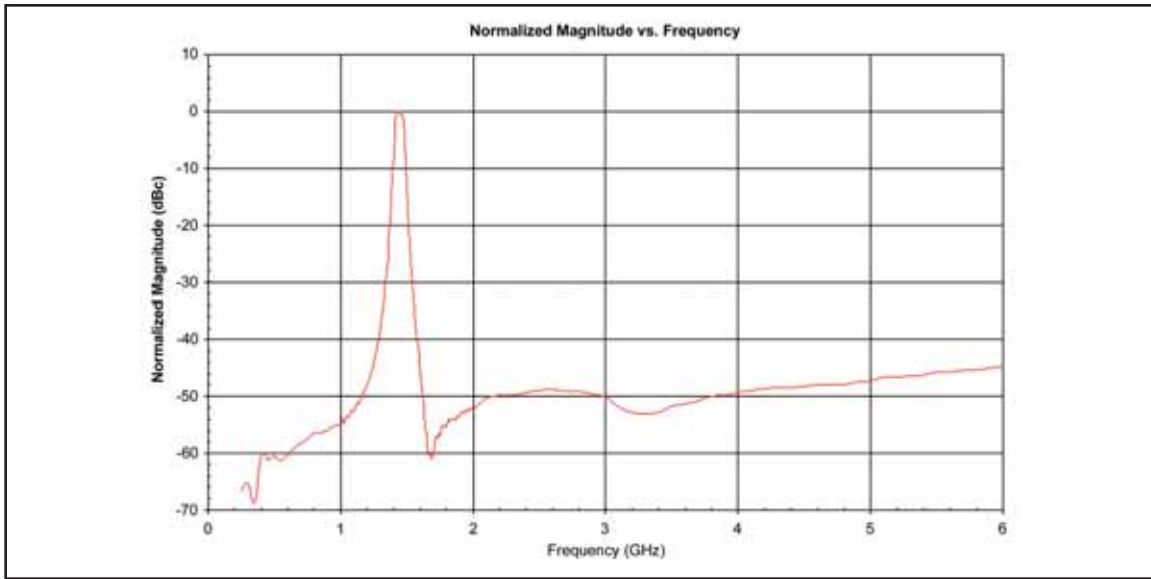
THE MULTI-MIX MICROTECHNOLOGY<sup>®</sup> GROUP IS ISO 9001:2000 REGISTERED



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

# TYPICAL PERFORMANCE

FBGC-1.44G



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Merrimac Industries / 41 Fairfield Place, West Caldwell, NJ 07006  
Tel: 1.888.434.MMFM / Fax: 973.882.5990 / Email: MMFM@merrimacind.com / www.Multi-Mix.com