

## TECHNICAL DESCRIPTION / APPLICATION

### MULTI-MIX<sup>®</sup> FILTERS

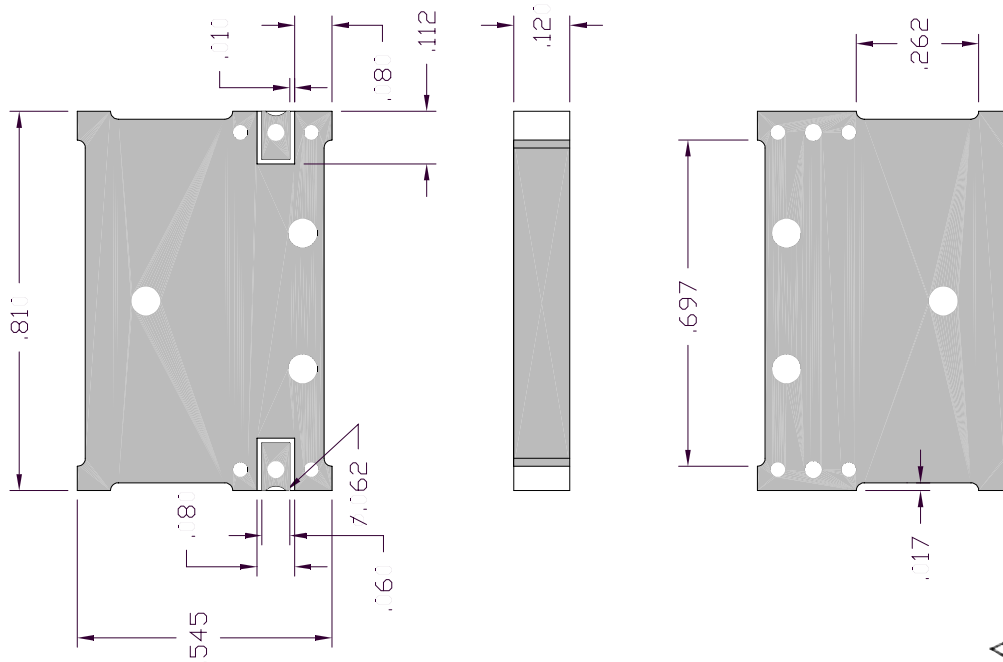
Merrimac's FBGI Series bandpass filters combine the features of Merrimac's patented Multi-Mix<sup>®</sup> multilayer fabrication technology with the ability to operate to three times their center frequency without reentrant spurious passbands. They typically offer better overall performance than filters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



## GENERAL SPECIFICATIONS

FILTER TYPE	CENTER FREQUENCY	OPERATING PASSBAND (MHz MIN)	INSERTION LOSS @ CENTER FREQUENCY	REJECTION	PASSBAND INPUT/ OUTPUT VSWR
BANDPASS	5.77 GHz Nominal	100	1.5 dB (TYP) 2.0 dB (MAX)	60 dB MIN. @ 4.27 GHz 60 dB MIN. @ 7.27 GHz	1.7:1 (MAX) @ 5770±50 MHz
IMPEDANCE	SIZE (INCHES)		WEIGHT (GRAMS/OZ.)	RF INTERFACE/ CONNECTIONS	OPERATING TEMPERATURE
50 Ohms	0.8 x 0.55 x 0.12		2.2 / 0.08	SMT	-55° - +85° C

## PACKAGE OUTLINE



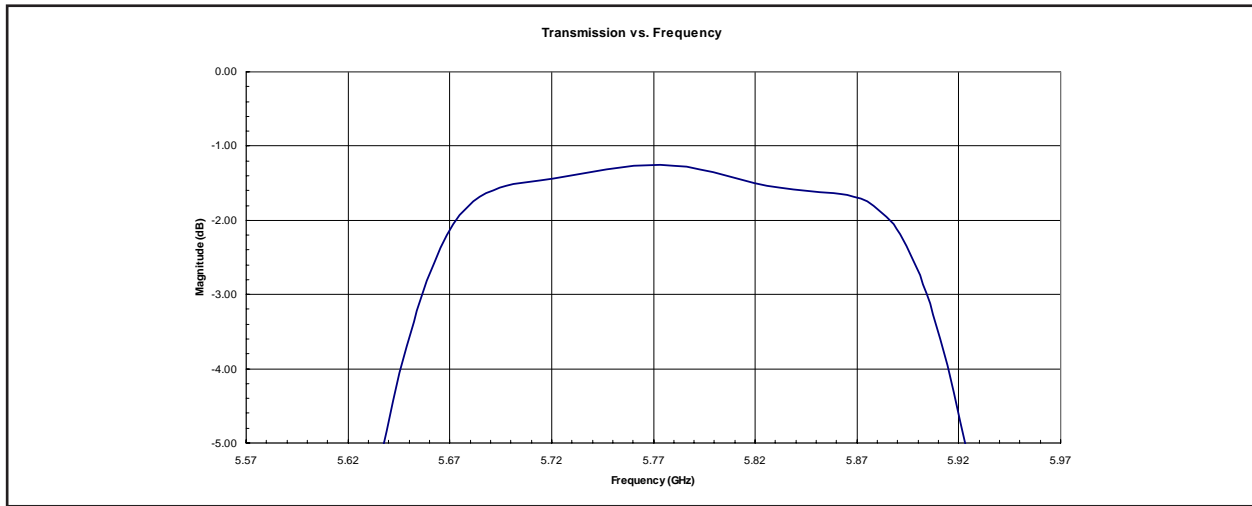
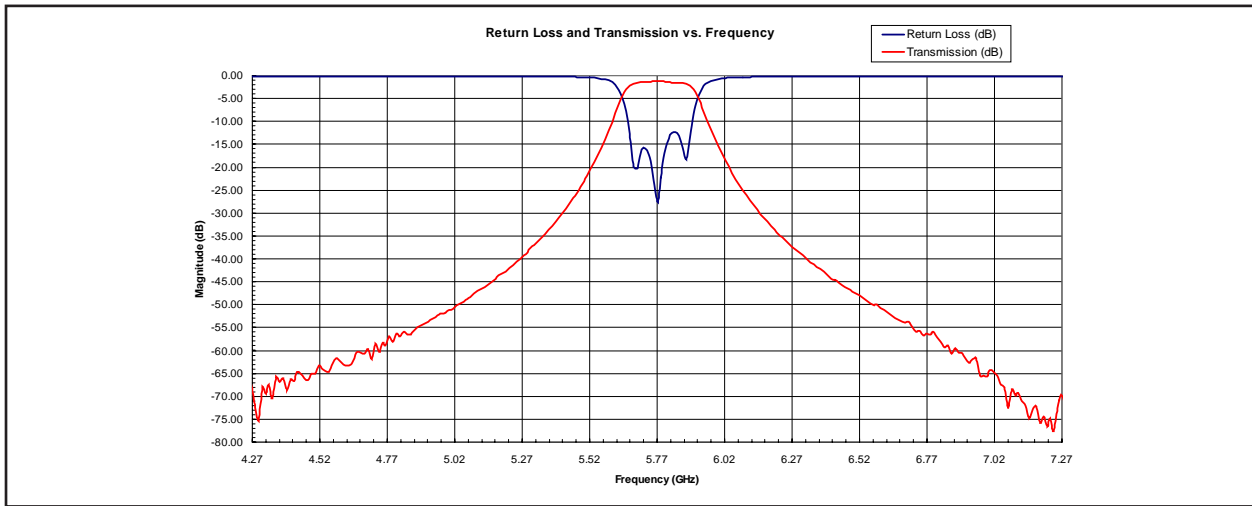
THE MULTI-MIX MICROTECHNOLOGY<sup>®</sup> GROUP IS ISO 9001:2000 REGISTERED



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

# TYPICAL PERFORMANCE

FBGI-5.77G



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