

TECHNICAL DESCRIPTION / APPLICATION

MULTI-MIX[®] FILTERS

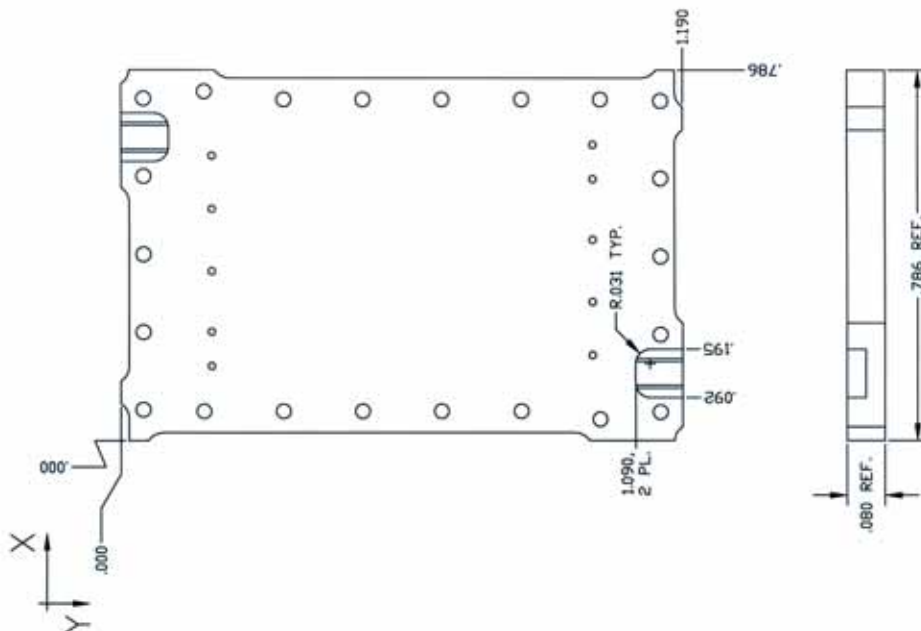
Merrimac's FBGI Series bandpass filters combine the features of Merrimac's patented Multi-Mix[®] multilayer fabrication technology with the ability to operate to three times their center frequency without reentrant spurious passbands. They typically offer better overall performance than filters designed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



GENERAL SPECIFICATIONS

| FILTER TYPE | CENTER FREQUENCY | 1 dB OPERATING BANDWIDTH | INSERTION LOSS @ CENTER FREQUENCY | REJECTION (dB MIN) | PASSBAND INPUT/OUTPUT VSWR |
|------------------------------|------------------|--------------------------|--|--|----------------------------|
| BANDPASS | 2130 MHz (NOM) | 300 MHz (MIN.) | 2 dB TYP 2.5 dB MAX | 70 dB MIN @ 1650 MHz 70 dB MIN @ 2600 MHz | 1.5:1 (TYP) 2.0:1 (MAX) |
| INPUT/OUTPUT IMPEDANCE (NOM) | POWER LEVEL | SIZE (INCHES) | RF INTERFACE/ CONNECTIONS | OPERATING TEMPERATURE | |
| 50 Ohms | TBS | 1.19 x 0.79 x 0.08 | SMT or 50 Ohm, co-planar waveguide launch with gold pads | -55° - +95° C | |

PACKAGE OUTLINE



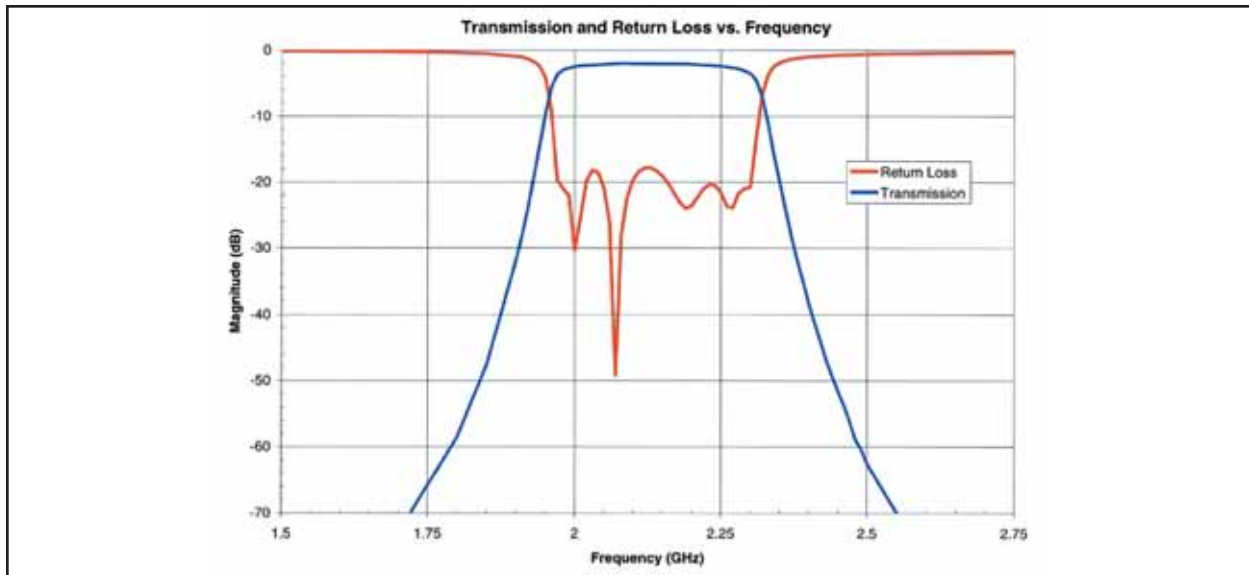
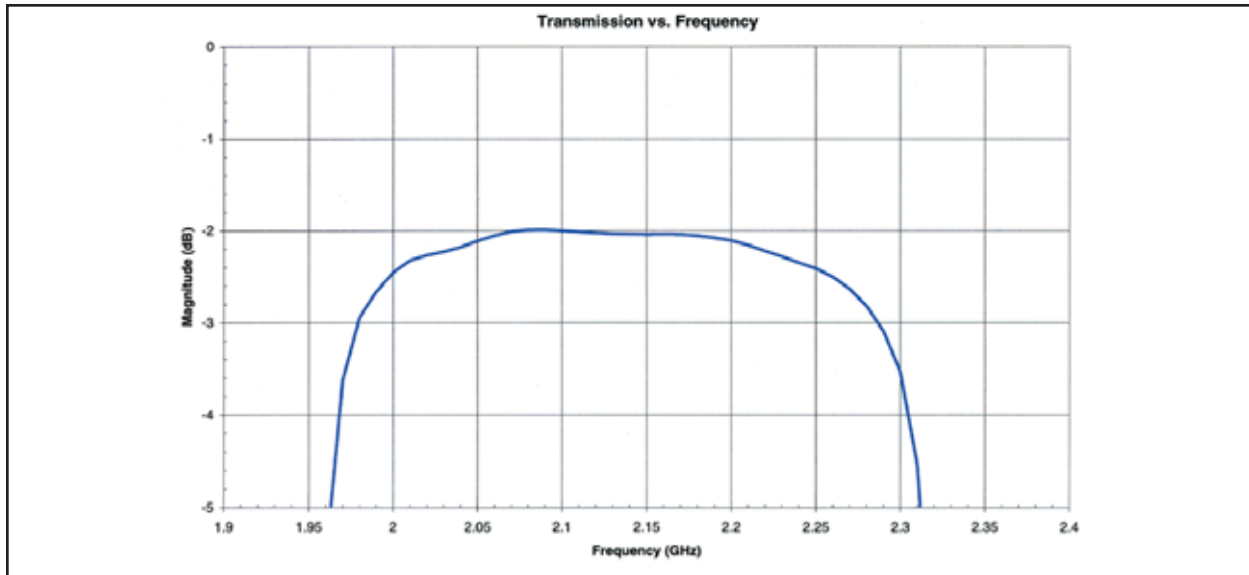
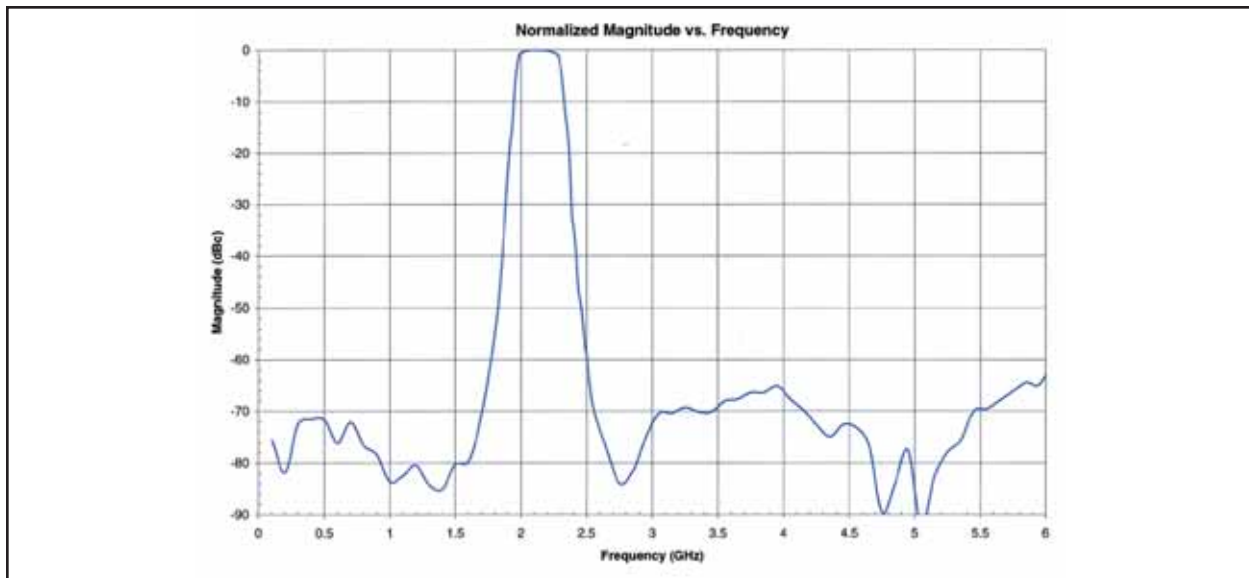
THE MULTI-MIX MICROTECHNOLOGY[®] GROUP IS ISO 9001:2000 REGISTERED



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

TYPICAL PERFORMANCE

FBGI-2.13G



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