

## TECHNICAL DESCRIPTION / APPLICATION

### MULTI-MIX<sup>®</sup> FILTERS

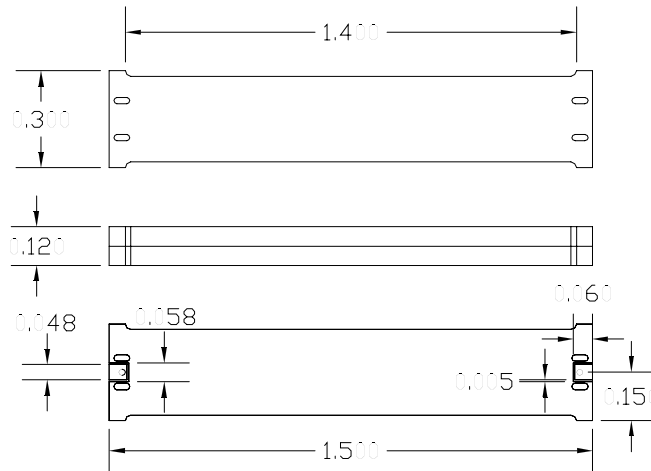
Merrimac's FBGE Series bandpass filters combine the features of Merrimac's patented Multi-Mix<sup>®</sup> multilayer fabrication technology with the ability to operate to three times their center frequency without reentrant spurious passbands. They typically offer better overall performance than filters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



## GENERAL SPECIFICATIONS

| FILTER TYPE      | OPERATING PASSBAND (MIN) | PASSBAND INSERTION LOSS (MAX) | REJECTION (dB MIN)                               | INPUT/OUTPUT VSWR               |
|------------------|--------------------------|-------------------------------|--|---------------------------------|
| BANDPASS         | 10.51-10.63 GHz          | 5.0 dB                        | 60 dB MIN (0-9.5 GHz)<br>45 dB MIN (11.5-19 GHz) | 1.7:1 (MAX) @ 10.57 ± 0.060 GHz |
| SIZE (INCHES)    | WEIGHT (GRAMS/OZ.)       | RF INTERFACE/ CONNECTIONS     | OPERATING TEMPERATURE                            |                                 |
| 1.5 x 0.3 x 0.12 | 1.9 / 0.1                | CPWG                          | -55° - +95° C                                    |                                 |

## PACKAGE OUTLINE



NOTES:  
1. ALL DIMENSIONS ARE IN INCHES.  
2. TOLERANCES: -3 PLACE DECIMALS; ±.005.

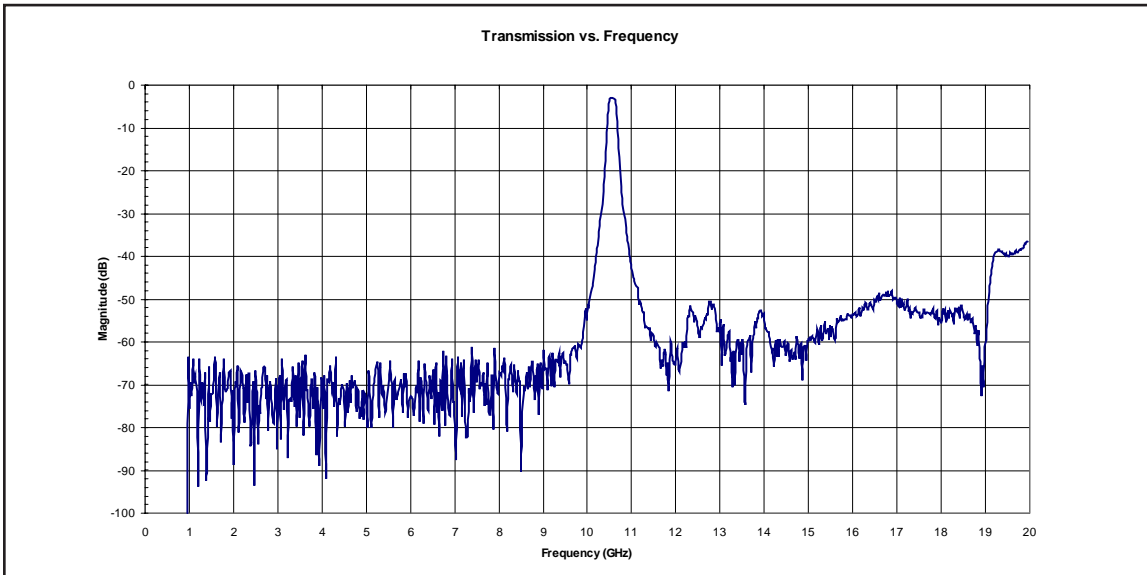
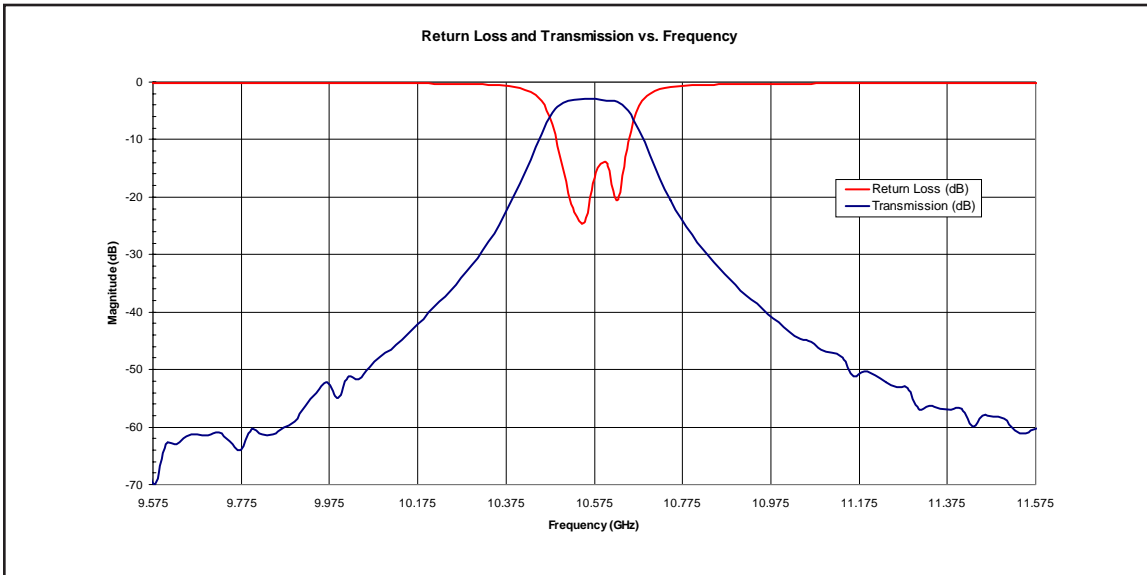
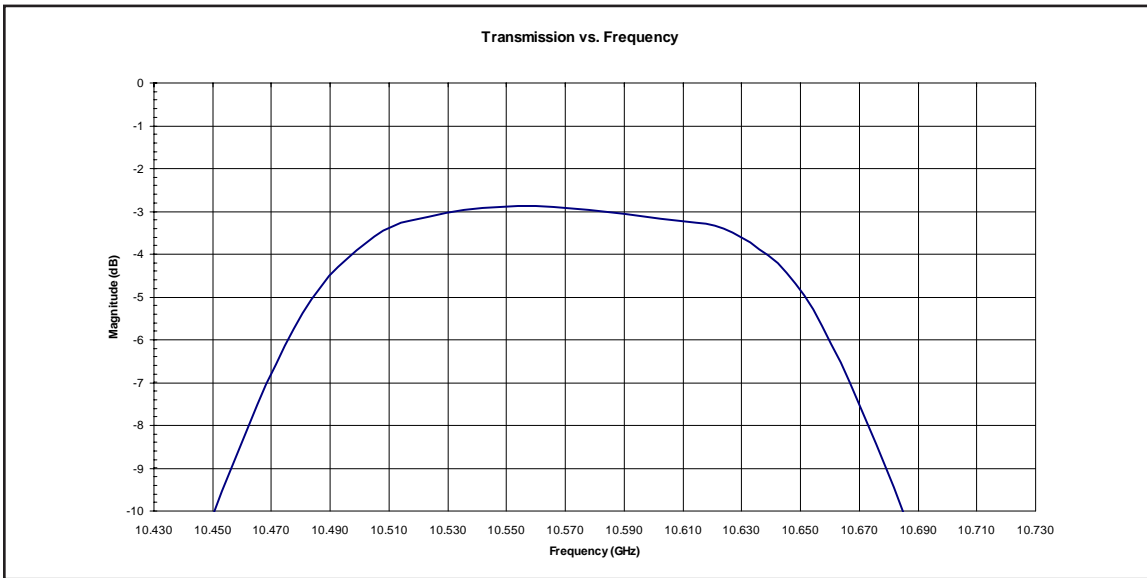
THE MULTI-MIX MICROTECHNOLOGY<sup>®</sup> GROUP IS ISO 9001:2000 REGISTERED



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

# TYPICAL PERFORMANCE

FBGE-10.57G



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