

**TYPICAL CHARACTERISTICS  
ON  
BPF-7G70R12G30R-SFF**

**PMI MODEL NUMBER BPF-7G70R12G30R-SFF IS A BANDPASS FILTER WITH A CENTER FREQUENCY OF 10 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 2.0 dB AND A MAXIMUM VSWR OF 1.8:1. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.**



**Reported By  
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3/5/2023**

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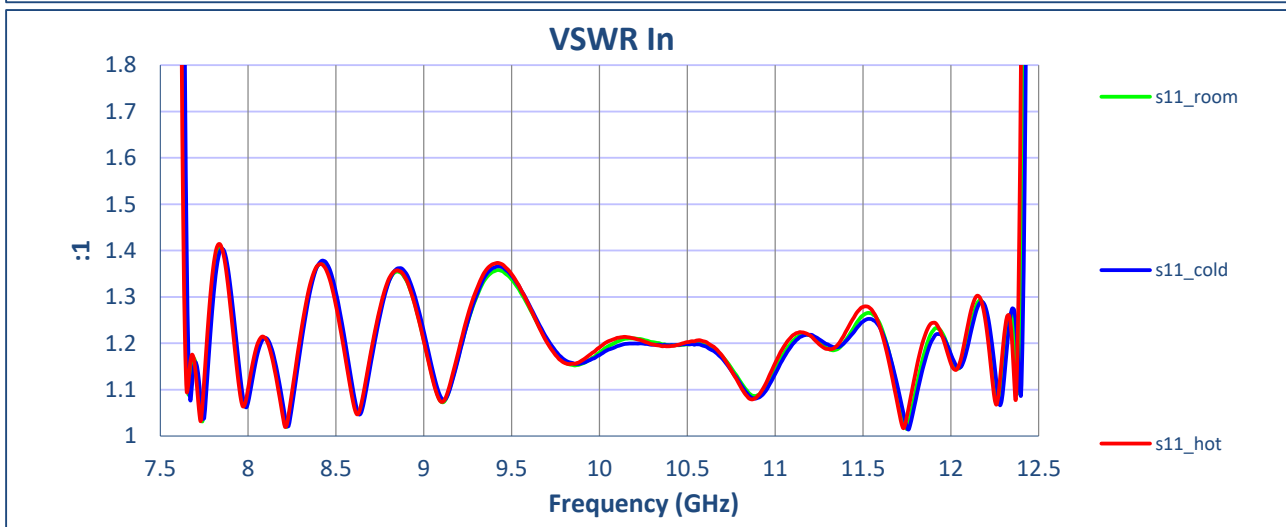
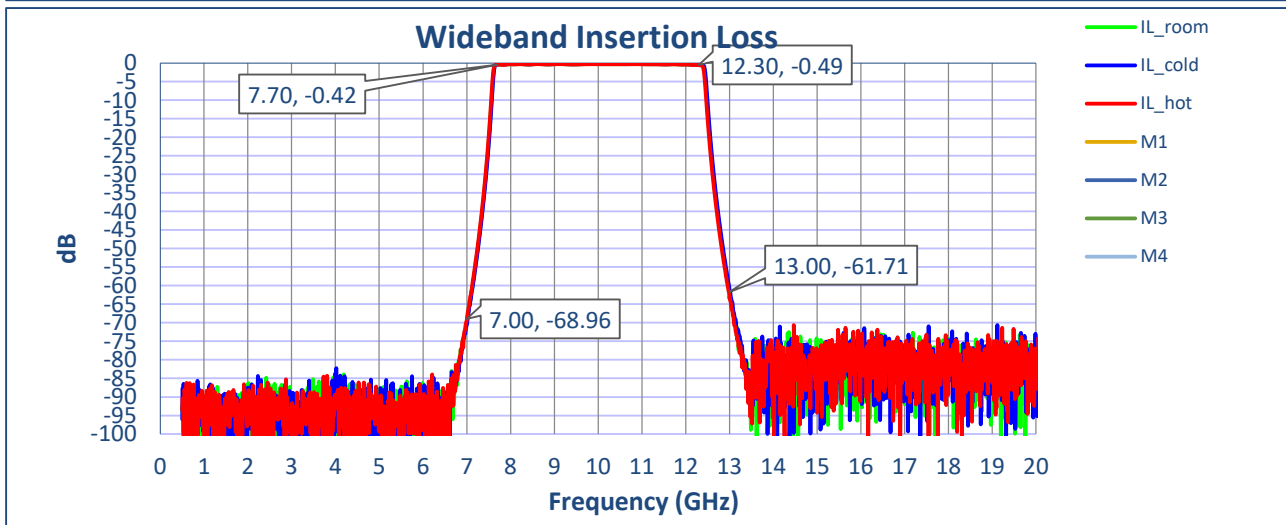
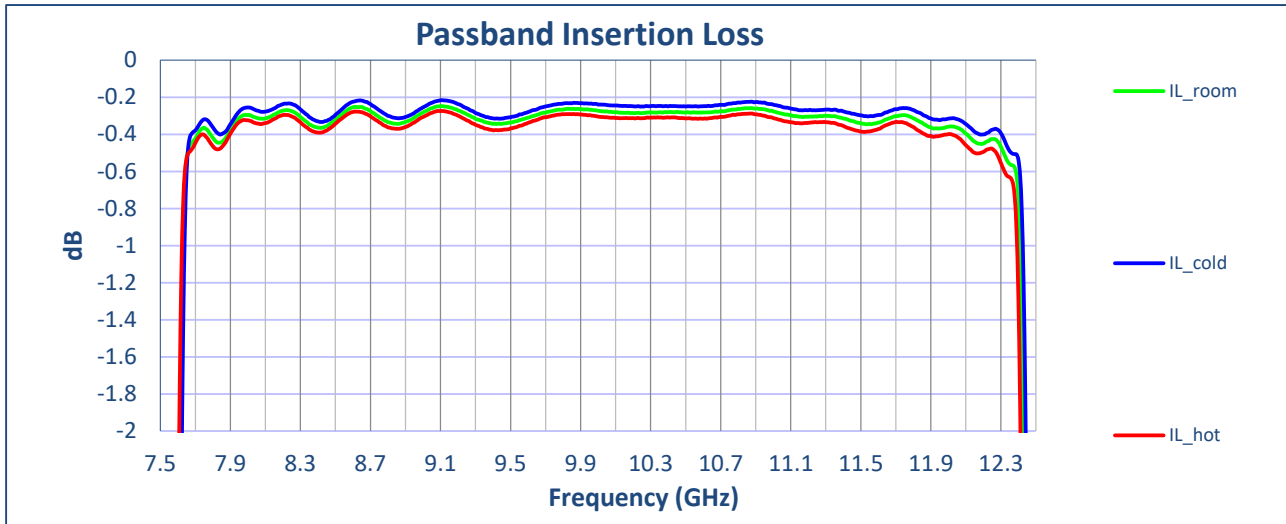


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**TEST DATA**

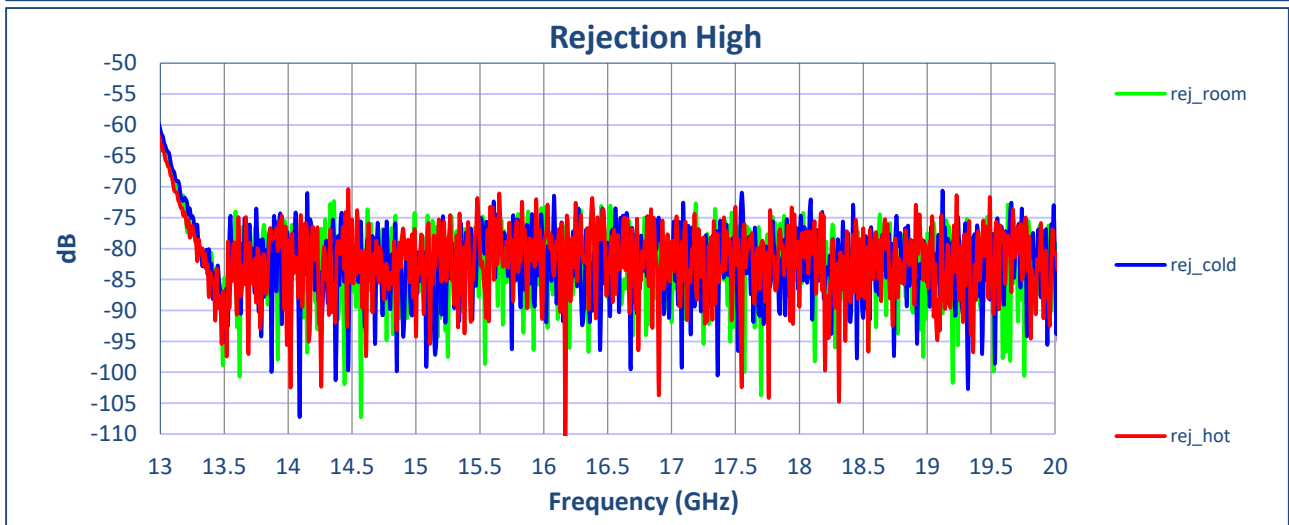
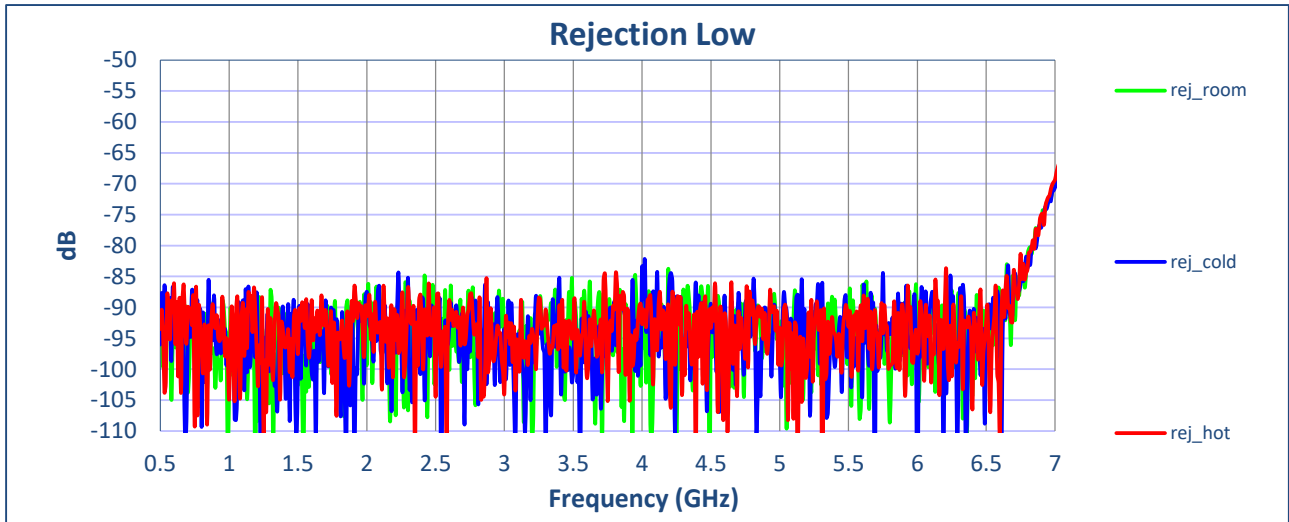
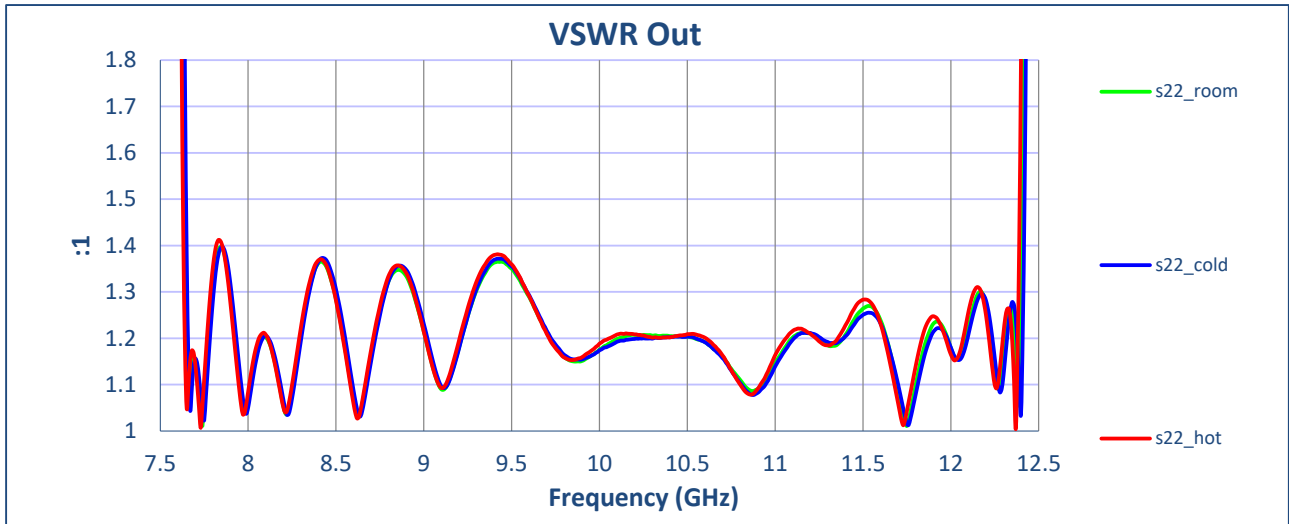
| TEST ITEM | PARAMETERS               | SPECIFIED VALUE  | TEST RESULTS        |                     |                     |
|-----------|--------------------------|--|---------------------|---------------------|---------------------|
|           |                          |  | 25°C                | -45°C               | 85°C                |
| 1         | Passband Frequency Range | 7.7 GHz to 12.3 GHz                                    | 7.7 GHz to 12.3 GHz | 7.7 GHz to 12.3 GHz | 7.7 GHz to 12.3 GHz |
| 2         | Insertion Loss           | 2 dB Max.  | 0.49 dB             | 0.41 dB             | 0.58 dB             |
| 3         | VSWR                     | 1.8 dB Max.  | 1.41:1              | 1.41:1              | 1.41:1              |
| 4         | Center Frequency         | 5 GHz  | 5 GHz               | 5 GHz               | 5 GHz               |
| 5         | Rejection                | 50 dBc Min., 0.5 to 7 GHz<br>50 dBc Min., 13 to 20 GHz | 61.2 dBc            | 60.3 dBc            | 62.5 dBc            |
| 6         | Input Power              | 10 Watts Typ   | Pass By Design      | Pass By Design      | Pass By Design      |
| 7         | Passband Ripple          | ±1 dB Max.   | ±0.12 dB            | ±0.12 dB            | ±0.12 dB            |
| 8         | Impedance                | 50 Ω   | 50 Ω                | 50 Ω                | 50 Ω                |

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