



**TYPICAL CHARACTERISTICS  
ON  
BPF-3R275G-250M-SFF**

**PMI MODEL NO. BPF-3R275G-250M-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 3.275 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 1.9 dB AND A MAXIMUM VSWR OF 1.5:1. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS.**



**August 9, 2022**

**Tested and Reported By:  
E. Kretz**



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# TYPICAL CHARACTERISTICS ON BPF-3R275G-250M-SFF

## Outline Drawing

**DESCRIPTION:**

PMI MODEL NO. BPF-3R275G-250M-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 3.275 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 1.9 dB AND A MAXIMUM VSWR OF 1.5:1. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS.

REVISION	DESCRIPTION	DATE	APPROVED
A1	ORIGINAL RELEASE	8/26/02	

**SPECIFICATIONS:**

- FREQUENCY RANGE (-3 dB BANDWIDTH): 3.15 TO 3.4 GHz
- INSERTION LOSS @ 3.275 GHz: 1.9 dB MAX
- PASS BAND RIPPLE: ±0.5 dB TYP, ±0.7 dB MAX
- VSWR: 1.5:1 MAX
- REJECTION @ 3.0 GHz: 40 dBc MIN
- REJECTION @ 2.8 GHz: 50 dBc MIN
- INPUT POWER: 1 WATT MAX
- IMPEDANCE: 50 OHMS
- CONNECTORS: SMA (FEMALE)
- FINISH: PAINTED BLUE



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: -20 °C TO +70 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY



APPROVALS	DATE	REVISION	DESCRIPTION
DESCANO	8/28/02		OUTLINE
RESISTE			
B	DSX000		

ITEM NO.	QTY	UNIT	DESCRIPTION
			BPF-3R275G-250M-SFF
			27044650



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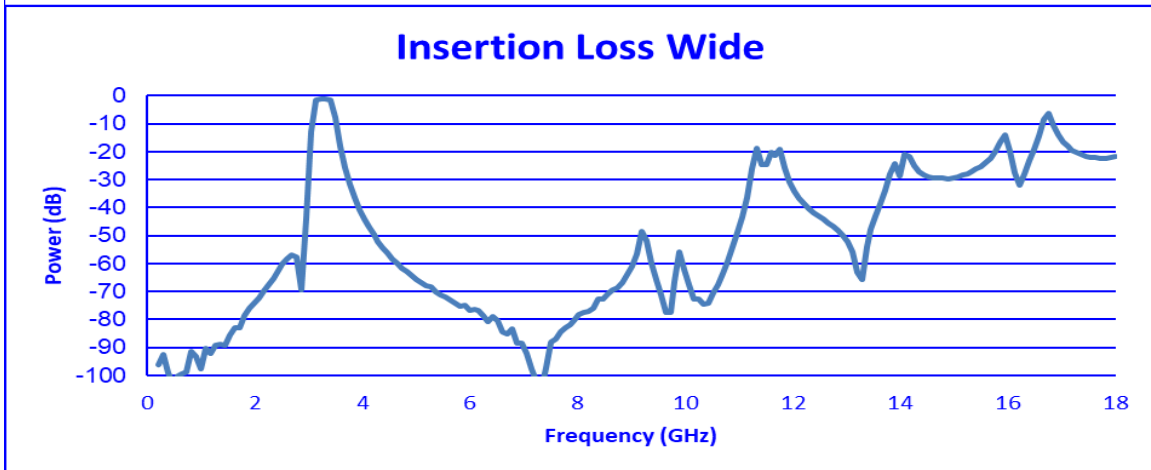
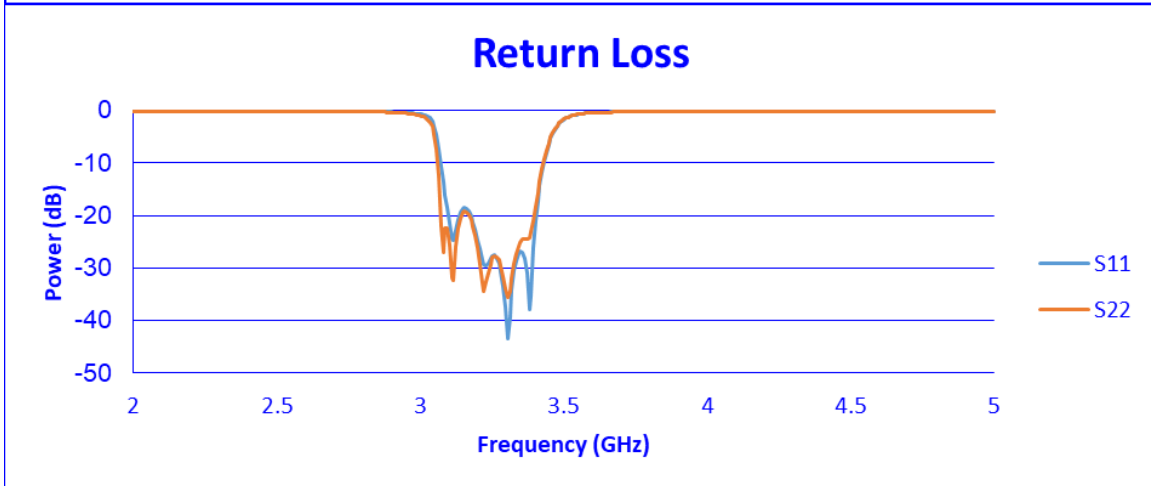
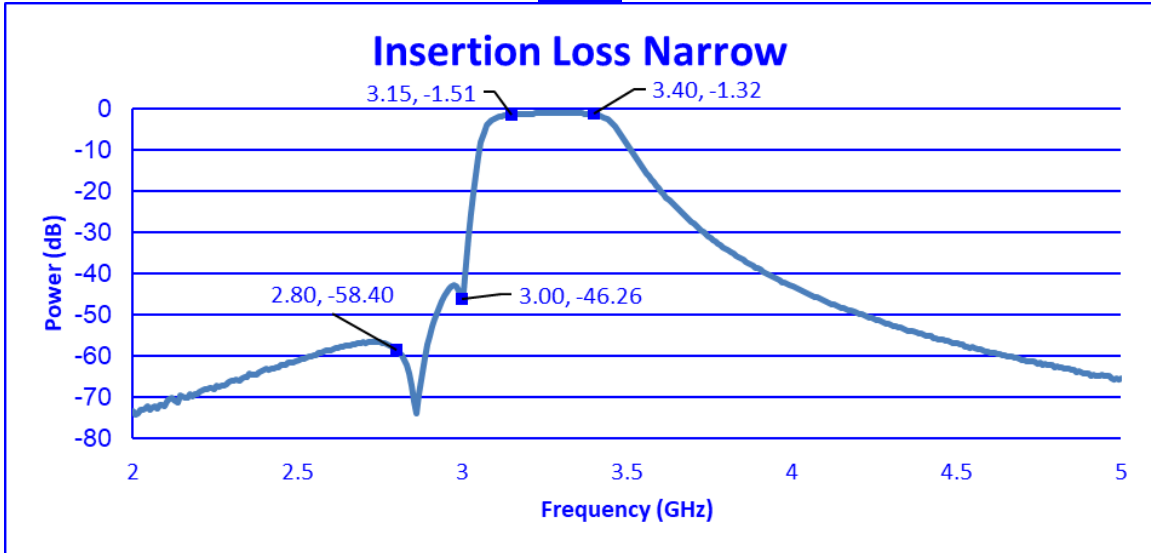
**SUMMARY DATA @ 25°C**

TEST ITEM	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE
1	Frequency Range (-3 dB Bandwidth)	3.15 to 3.4 GHz	3.15 to 3.4 GHz
2	Insertion Loss @ 3.275 GHz	1.9 dB MAX	1.09 dB
3	Pass Band Ripple	± 0.5 dB TYP. ± 0.7 dB MAX.	± 0.21 dB
4	VSWR	1.5:1 MAX	1.27:1
5	Rejection @ 3.0 GHz	40 dBc MIN	45 dBc
6	Rejection @ 2.8 GHz	50 dBc MIN	57 dBc
7	Input Power	1W MAX	1W MAX



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**25°C**





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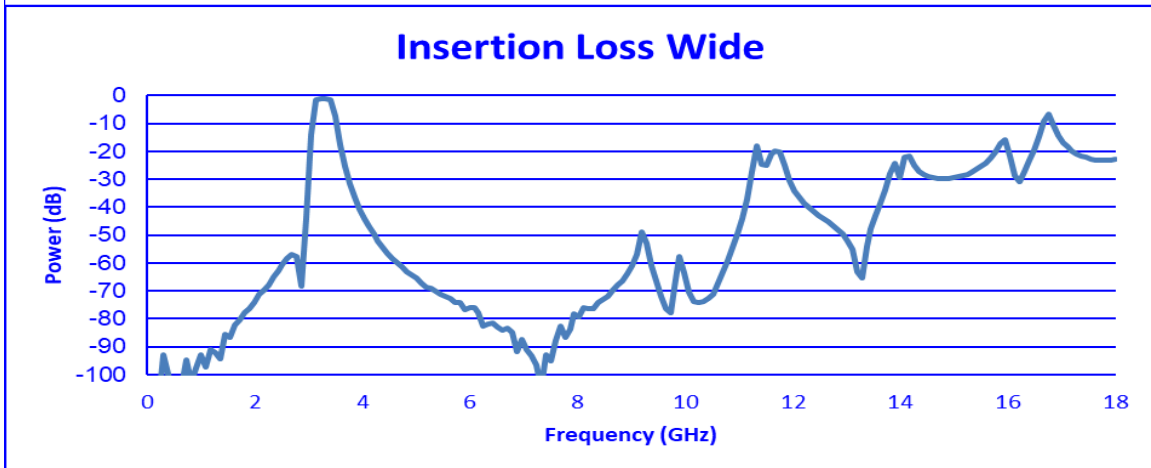
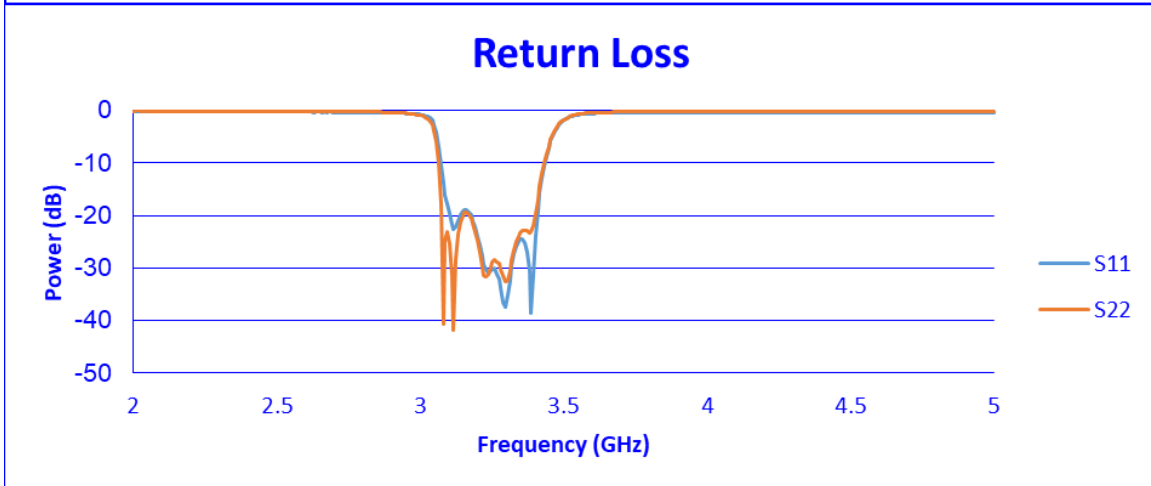
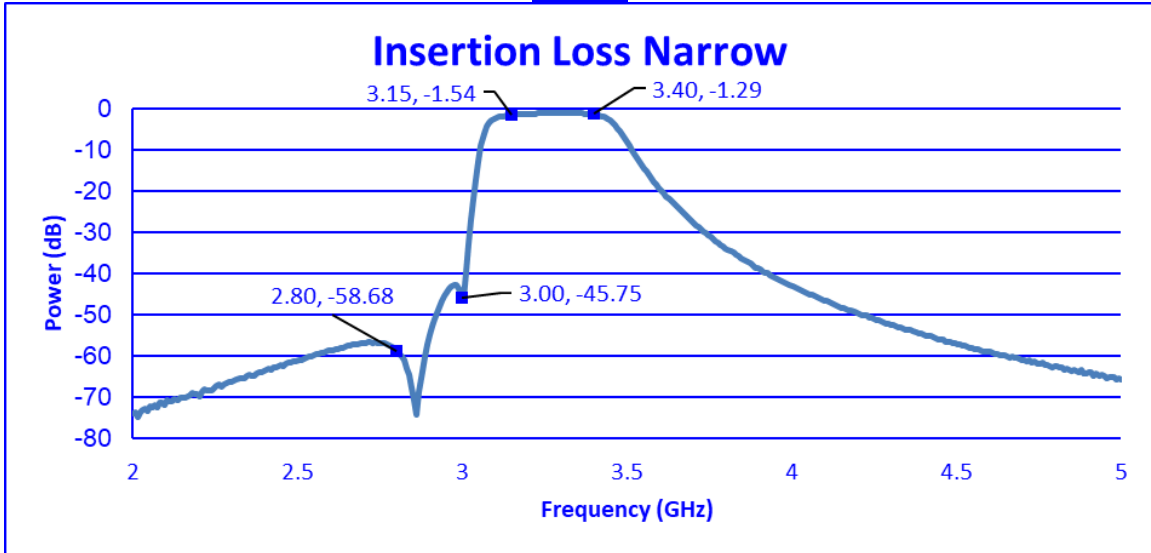
**SUMMARY DATA @ -20°C**

TEST ITEM	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE
1	Frequency Range (-3 dB Bandwidth)	3.15 to 3.4 GHz	3.15 to 3.4 GHz
2	Insertion Loss @ 3.275 GHz	1.9 dB MAX	1.11 dB
3	Pass Band Ripple	± 0.5 dB TYP. ± 0.7 dB MAX.	± 0.22 dB
4	VSWR	1.5:1 MAX	1.26:1
5	Rejection @ 3.0 GHz	40 dBc MIN	44 dBc
6	Rejection @ 2.8 GHz	50 dBc MIN	57 dBc
7	Input Power	1W MAX	1W MAX



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**-20°C**





**TYPICAL CHARACTERISTICS  
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**SUMMARY DATA @ 70°C**

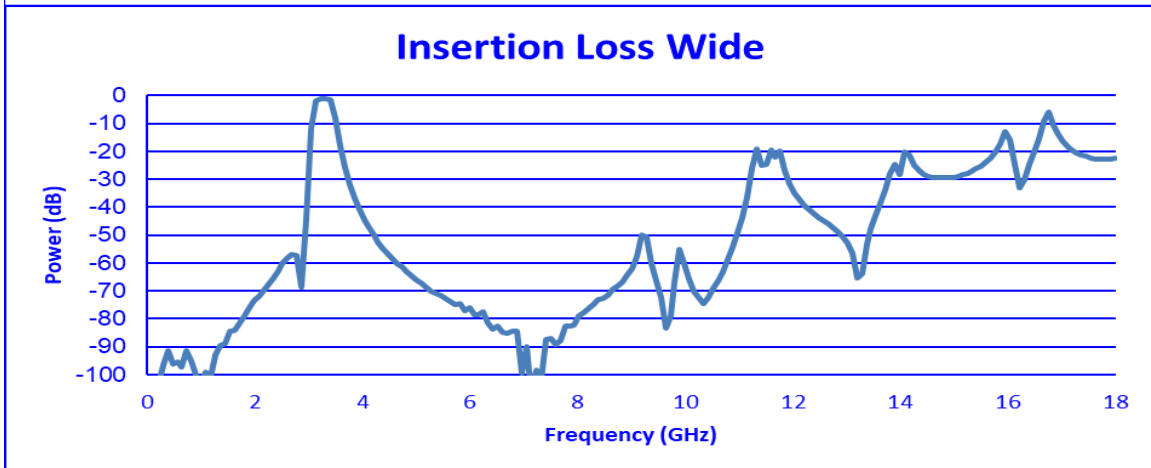
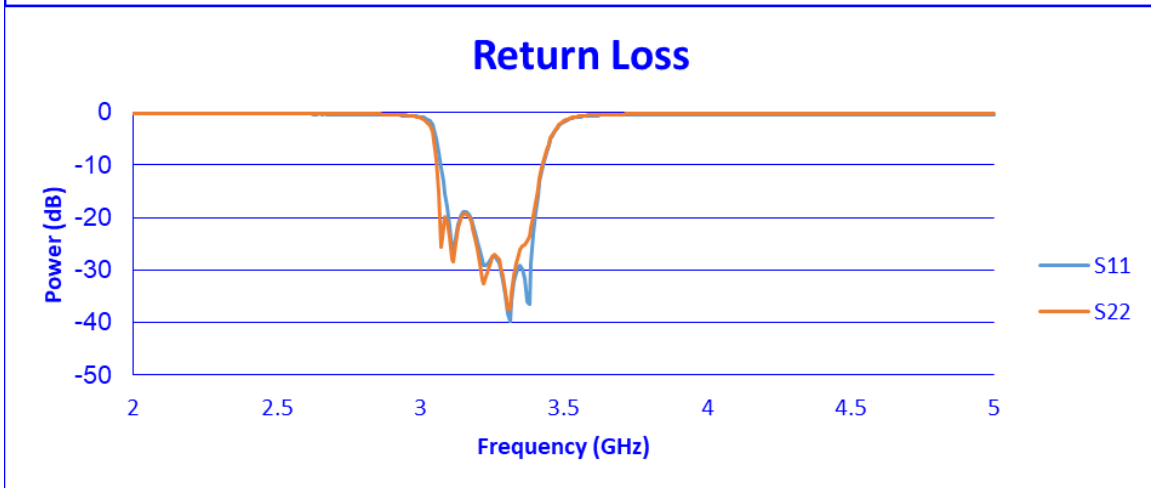
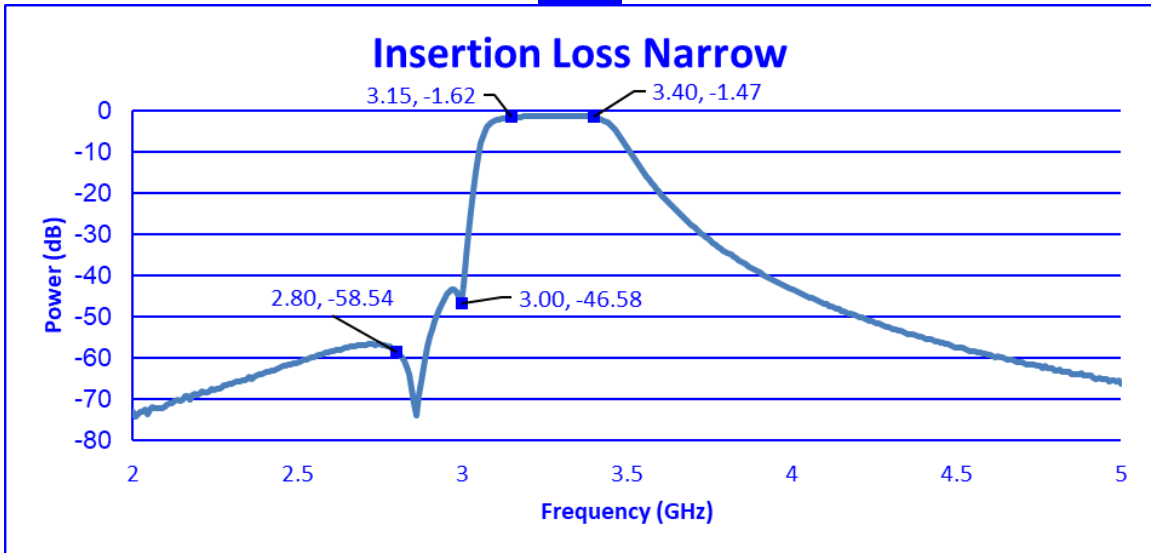
TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE
1	Frequency Range (-3 dB Bandwidth)	3.15 to 3.4 GHz	3.15 to 3.4 GHz
2	Insertion Loss @ 3.275 GHz	1.9 dB MAX	1.21 dB
3	Pass Band Ripple	± 0.5 dB TYP. ± 0.7 dB MAX.	± 0.21 dB
4	VSWR	1.5:1 MAX	1.26:1
5	Rejection @ 3.0 GHz	40 dBc MIN	45 dBc
6	Rejection @ 2.8 GHz	50 dBc MIN	57 dBc
7	Input Power	1W MAX	1W MAX





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**70°C**





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**Power Handling**

