



TYPICAL CHARACTERISTICS ON 11BP2400-98D4-CD-SFF

PMI MODEL: 11BP2400-98D4-CD-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 2400 MHz AND A NOMINAL BANDWIDTH OF 98.4 MHz. THIS UNIT HAS A TYPICAL INSERTION LOSS OF 3.1 dB INSIDE THE SMALL 2.00" x 0.50" x 0.50" PACKAGE OUTFITTED WITH SMA FEMALE CONNECTORS.



August 18, 2021



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OUTLINE DRAWING

DESCRIPTION

PMI MODEL: 11BP2400-98D4-CD-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 2400 MHz AND A NOMINAL BANDWIDTH OF 98.4 MHz. THIS UNIT HAS A TYPICAL INSERTION LOSS OF 3.1 dB INSIDE THE SMALL 2.00" x 0.50" x 0.50" PACKAGE OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- CENTER FREQUENCY: ----- 2400 MHz NOMINAL
- 3 dB BANDWIDTH: ----- 98.4 MHz NOMINAL
- PASSBAND INSERTION LOSS: ----- 3.1 dB TYPICAL
10.0 dB MAXIMUM
- PASSBAND VSWR: ----- 1.5:1 MAXIMUM
- STOPBAND ATTENUATION: ----- 70 dB MINIMUM @ 2280 MHz
70 dB MINIMUM @ 2520 MHz
- POWER HANDLING: ----- +30 dBm MAXIMUM
- IMPEDANCE: ----- 50 Ω
- CONNECTORS: ----- SMA FEMALE
- SIZE: ----- 2.00" x 0.50" x 0.50"
50.80 mm x 12.70 mm x 12.70 mm
- SURFACE FINISH: ----- BLUE EPOXY POLIMIDE COATING IAW
MIL-C-22750, TYPE I OVER EPOXY
POLIMIDE PRIMER IAW MIL-P-23377,
TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

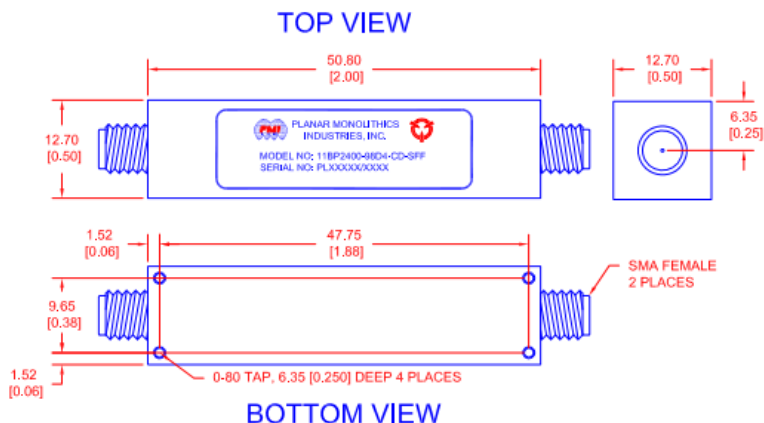
- TEMPERATURE: ----- -0 °C TO +50 °C (OPERATING)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

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

ALL DIMENSIONS ARE IN mm [INCH]
TOLERANCES:
X.XX ±0.508 [0.020]
X.XXX ±0.254 [0.010]

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A1	ORIGINAL RELEASE	05/07/01
	A2	ECN # 21-0139	8/25/01

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		M. Berry		02/11/10	
CHECKED					
ISSUED					
				PRODUCT FEATURE 11BP2400-98D4-CD-SFF	
				REV. A2	
				SCALE N:S	
				SHEET 1 OF 1	



TYPICAL CHARACTERISTICS ON 11BP2400-98D4-CD-SFF

TEST DATA SUMMARY AT 25°C

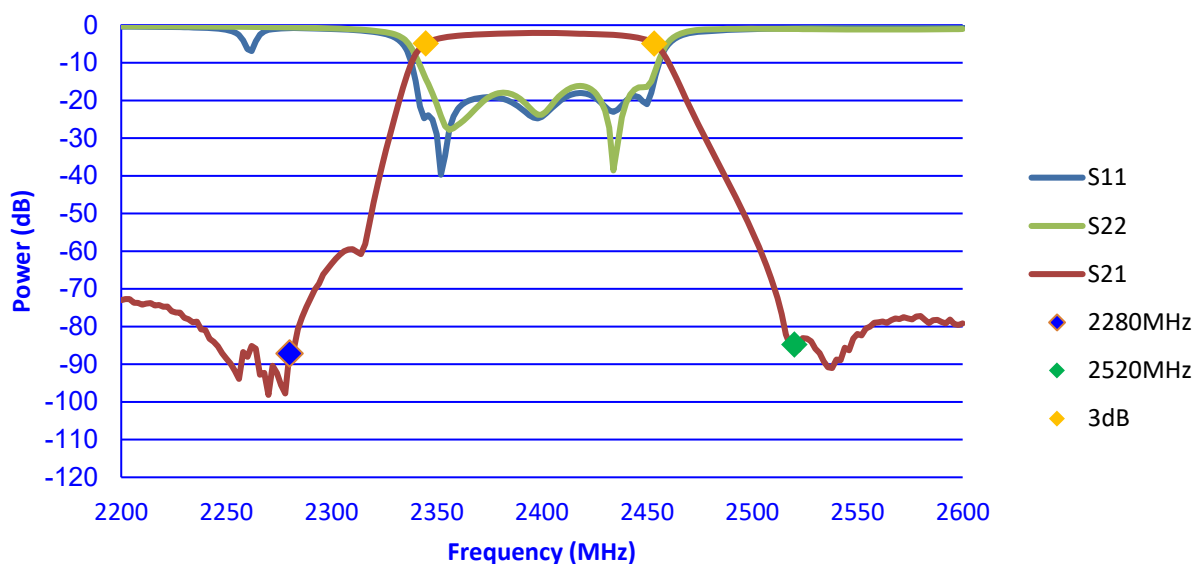
TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2400 MHz NOMINAL	2399 MHz	
2	3 dB Bandwidth:	98.4 MHz NOMINAL	108.6 MHz	
3	Passband Insertion Loss:	3.1 dB TYP. 10.0 dB Max.	5.06 dB	
4	Passband VSWR:	1.5:1 Max.	1.37:1	
5	Stopband Attenuation:	70 dB Min @ 2280 MHz 70 dB Min @ 2520 MHz	87.1 dB 84.8 dB	
6	Power Handling:	+30 dBm Max.	+30 dBm Max.	
7	Impedance:	50Ω	50Ω	



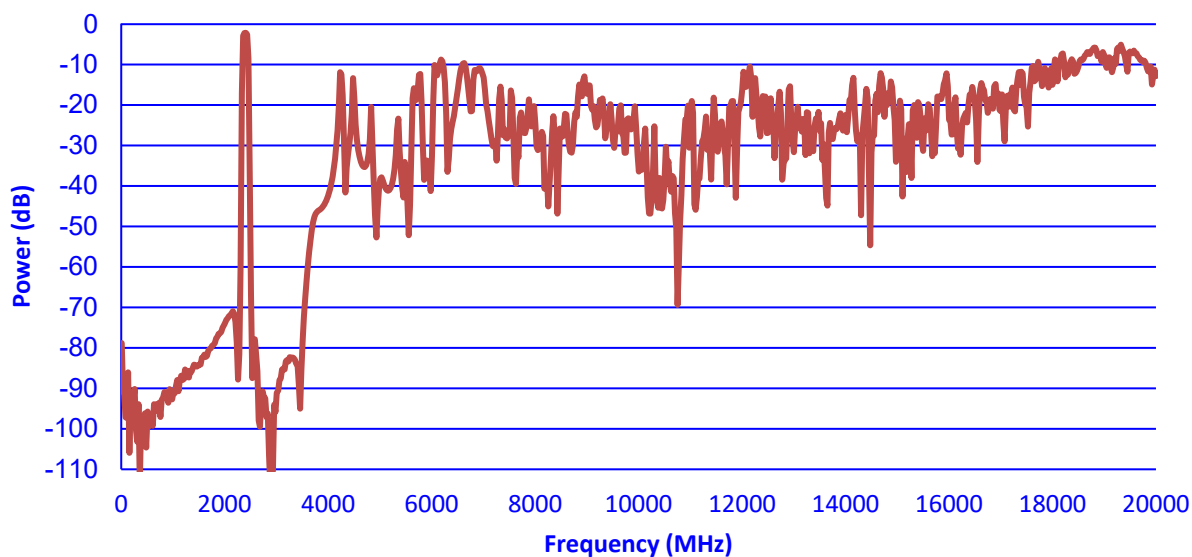
TYPICAL CHARACTERISTICS ON 11BP2400-98D4-CD-SFF

TEST DATA AT 25°C

**Plot of Power (dB) vs Frequency (MHz)
For S11, S22, and S21**



**Wide Band Plot of Power (dB) vs Frequency (MHz)
For S21**





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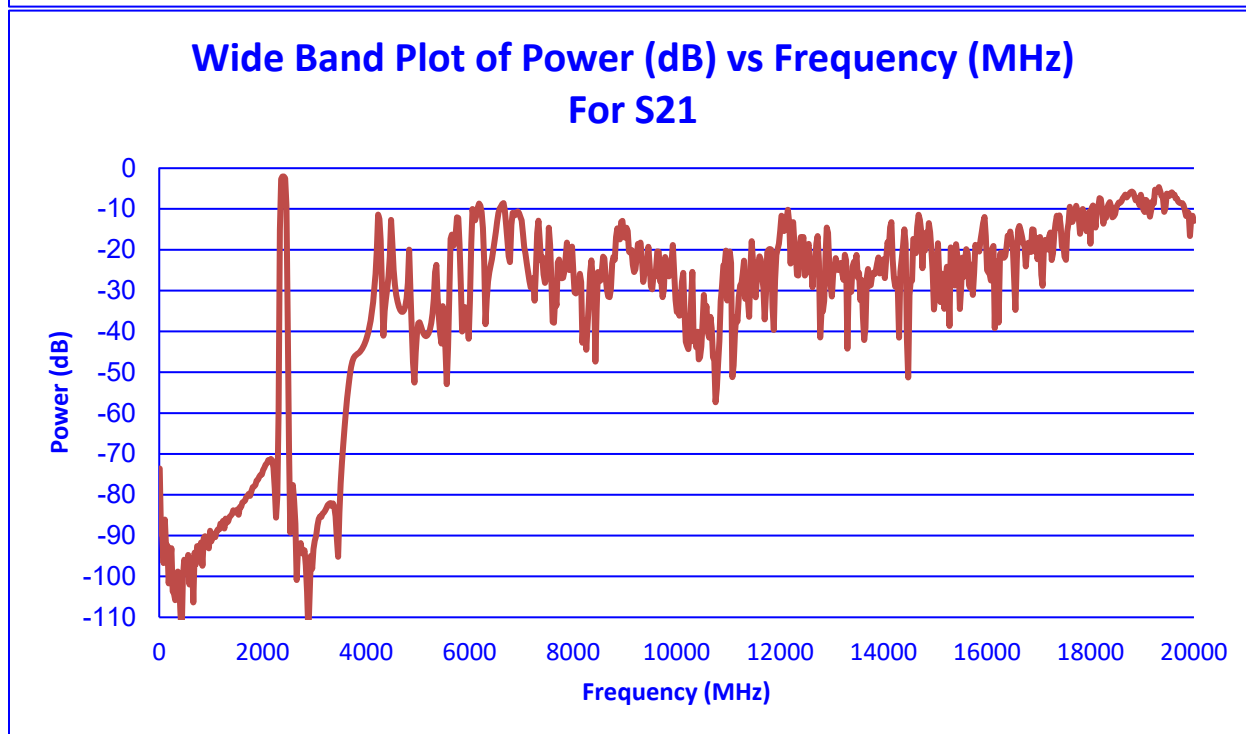
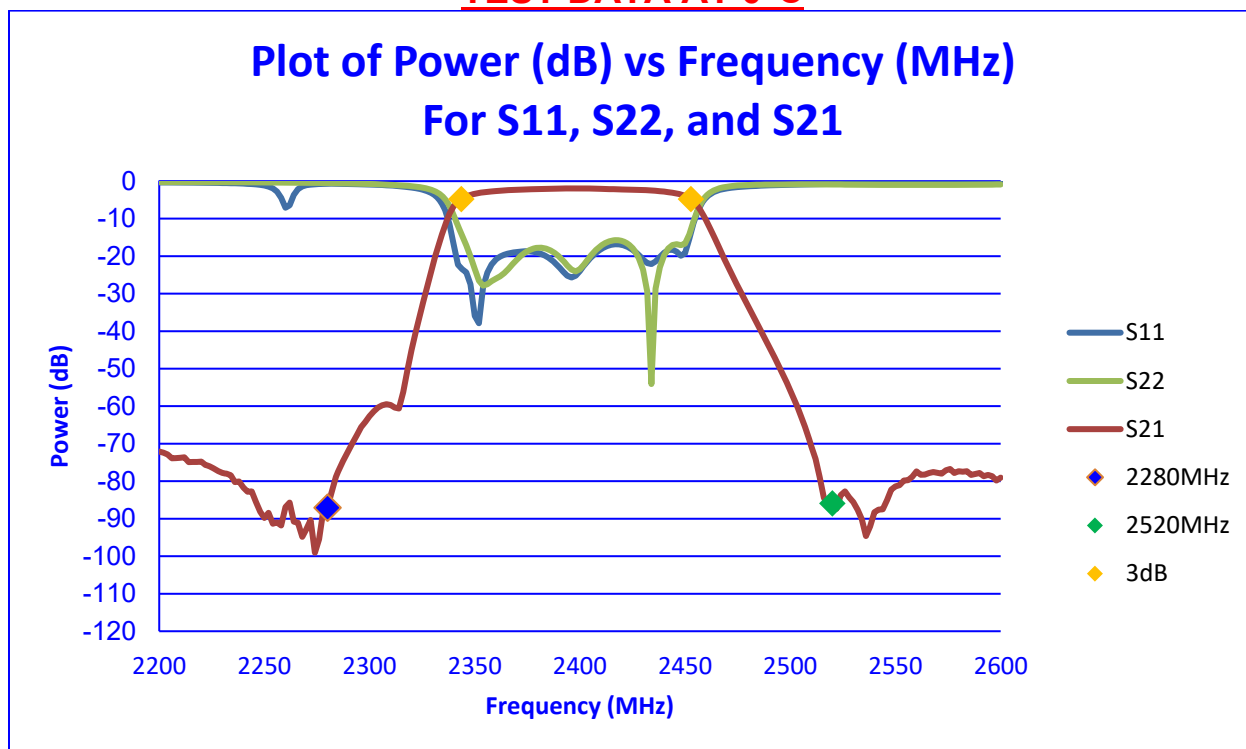
TEST DATA SUMMARY AT 0°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2400 MHz NOMINAL	2398 MHz	
2	3 dB Bandwidth:	98.4 MHz NOMINAL	109.2 MHz	
3	Passband Insertion Loss:	3.1 dB TYP. 10.0 dB Max.	4.94 dB	
4	Passband VSWR:	1.5:1 Max.	1.39:1	
5	Stopband Attenuation:	70 dB Min @ 2280 MHz 70 dB Min @ 2520 MHz	87 dB 85.9 dB	
6	Power Handling:	+30 dBm Max.	+30 dBm Max.	
7	Impedance:	50Ω	50Ω	



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TEST DATA AT 0°C





TYPICAL CHARACTERISTICS ON 11BP2400-98D4-CD-SFF

TEST DATA SUMMARY AT 50°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2400 MHz NOMINAL	2401 MHz	
2	3 dB Bandwidth:	98.4 MHz NOMINAL	108.6 MHz	
3	Passband Insertion Loss:	3.1 dB TYP. 10.0 dB Max.	5.17 dB	
4	Passband VSWR:	1.5:1 Max.	1.35:1	
5	Stopband Attenuation:	70 dB Min @ 2280 MHz 70 dB Min @ 2520 MHz	90.1 dB 85.1 dB	
6	Power Handling:	+30 dBm Max.	+30 dBm Max.	
7	Impedance:	50Ω	50Ω	



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TEST DATA AT 50°C

