



TYPICAL CHARACTERISTICS ON 10BP2040-87D6-CD-SFF

PMI MODEL: 10BP2040-87D6-CD-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 2040 MHz AND A NOMINAL BANDWIDTH OF 87.6 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.



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OUTLINE DRAWING

DESCRIPTION

PMI MODEL: 10BP2040-87D6-CD-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 2040 MHz AND A NOMINAL BANDWIDTH OF 87.6 MHz. THIS UNIT HAS A TYPICAL INSERTION LOSS OF 3.0 dB INSIDE THE SMALL 2.00" x 0.50" x 0.50" PACKAGE OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- CENTER FREQUENCY: 2040 MHz NOMINAL
- 3 dB BANDWIDTH: 87.6 MHz NOMINAL
- PASSBAND INSERTION LOSS: 3.0 dB TYPICAL
10.0 dB MAXIMUM
- PASSBAND VSWR: 1.5:1 MAXIMUM
- STOPBAND ATTENUATION: 70 dB MINIMUM @ 1920 MHz
70 dB MINIMUM @ 2160 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

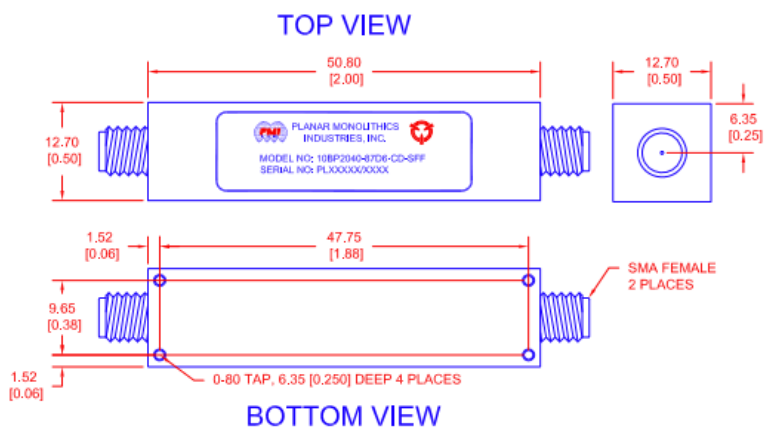
- TEMPERATURE: -0 °C TO +50 °C (OPERATING)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

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	APPROVED
	A1	ORIGINAL RELEASE	08/28/21	
	A2	ECN # 21-0139	08/25/21	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		M. Berry		PRODUCT FEATURE	
CHECKED				10BP2040-87D6-CD-SFF	
ISSUED					
SIZE	A	FIG. NO.	05XQ0	DWG. NO.	27042100
SCALE	N:S			SHEET	1 OF 1



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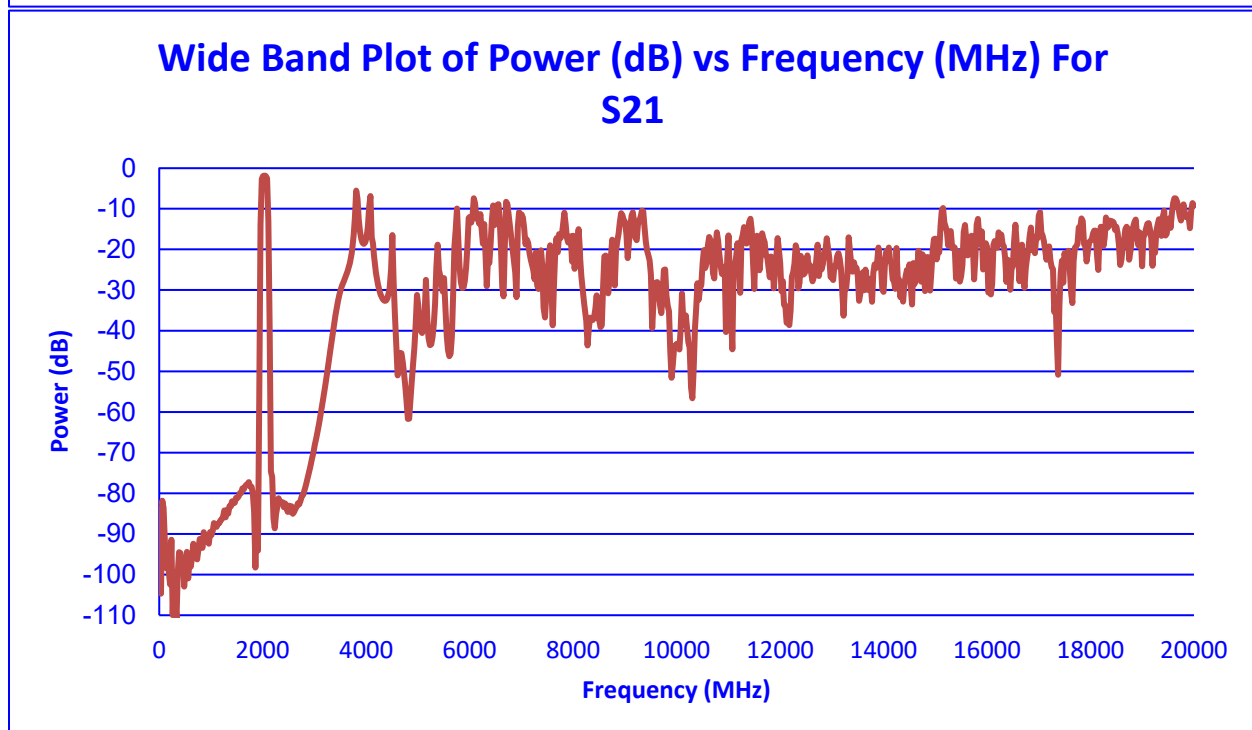
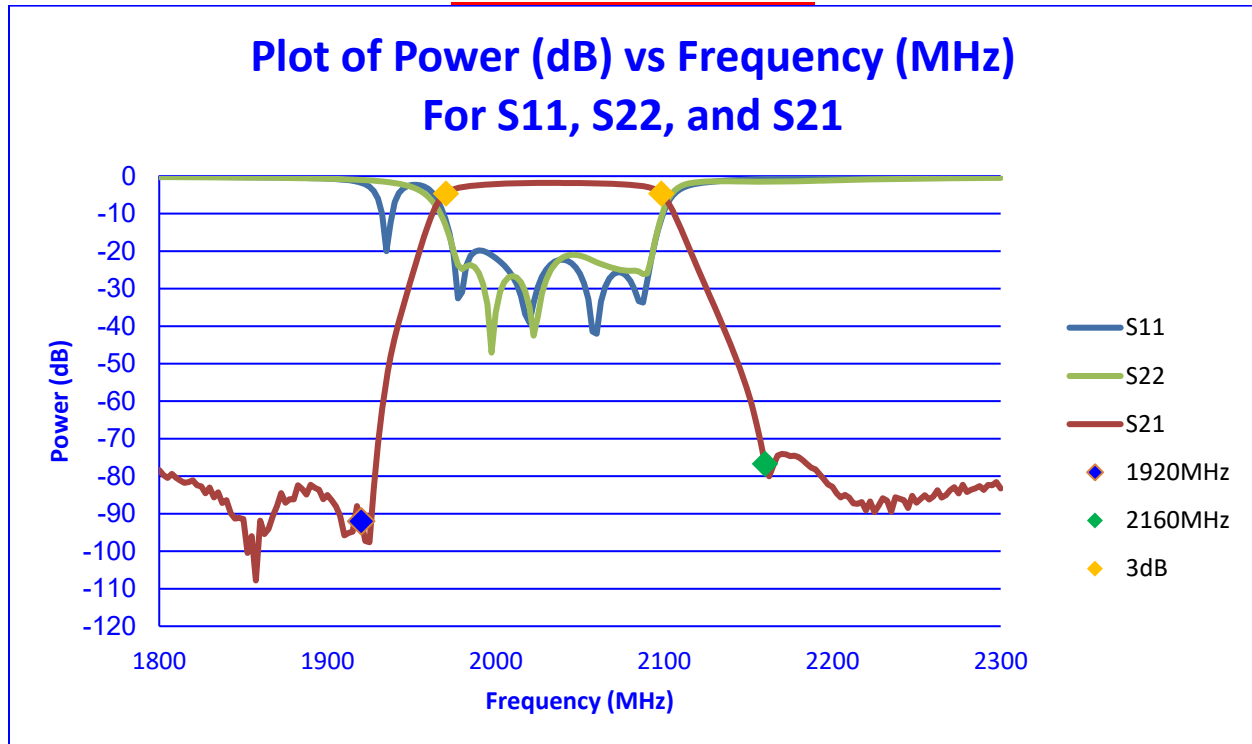
TEST DATA SUMMARY AT 25°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2040 MHz NOMINAL	2030 MHz	
2	3 dB Bandwidth:	87.6 MHz NOMINAL	128 MHz	
3	Passband Insertion Loss:	3.0 dB TYP. 10.0 dB Max.	4.81 dB	
4	Passband VSWR:	1.5:1 Max.	1.23:1	
5	Stopband Attenuation:	70 dB Min @ 1920 MHz 70 dB Min @ 2160 MHz	92 dB 76.7 dB	
6	Power Handling:	+30 dBm Max.	+30 dBm Max.	
7	Impedance:	50Ω	50Ω	



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TEST DATA AT 25°C





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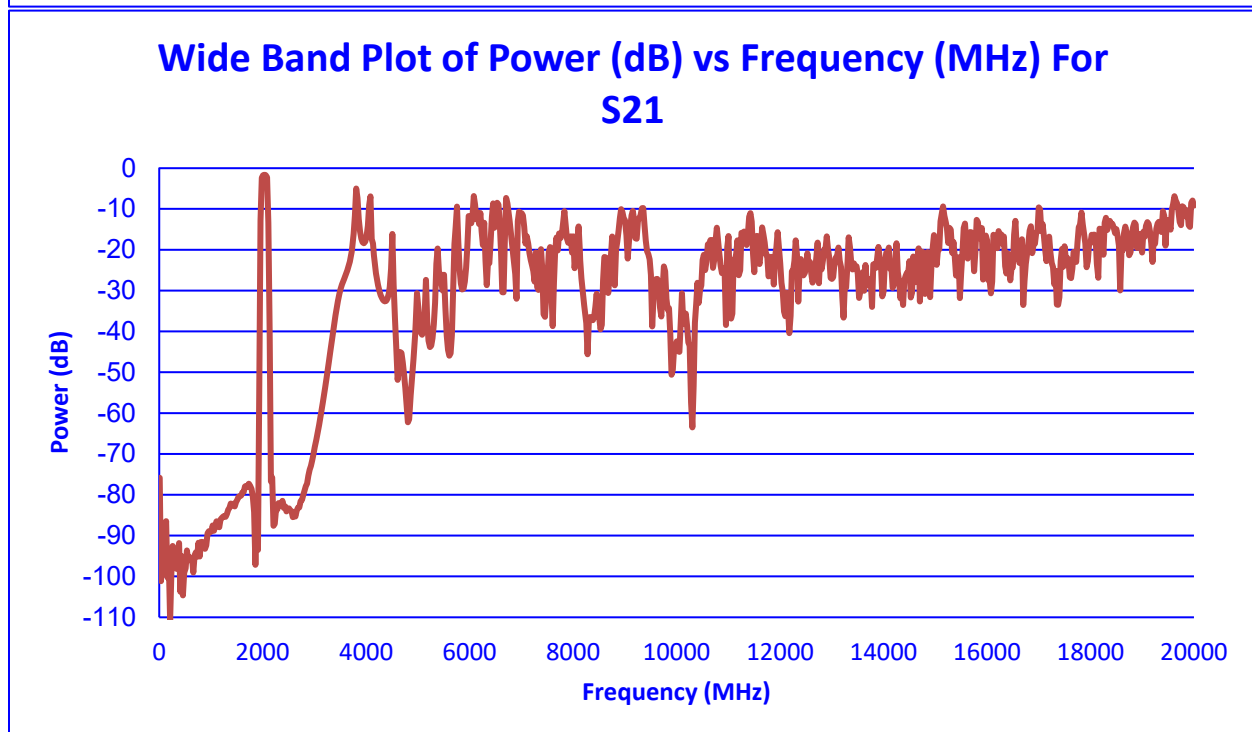
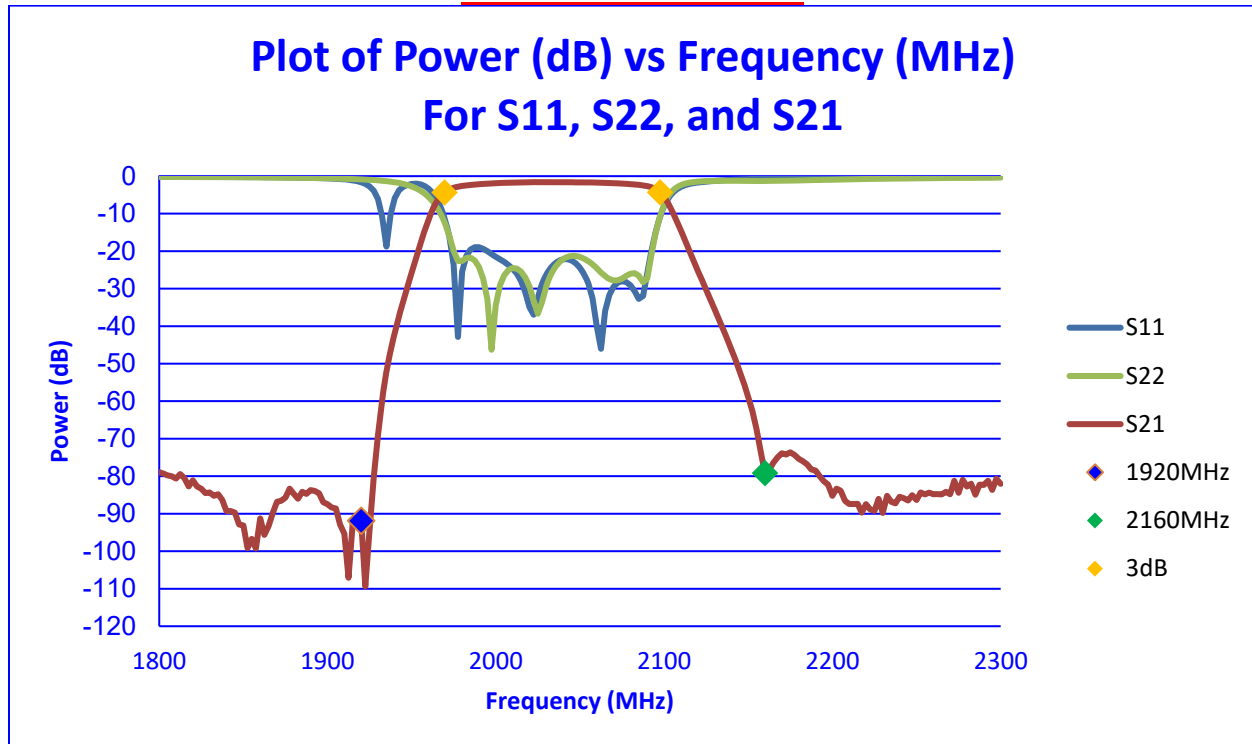
TEST DATA SUMMARY AT 0°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2040 MHz NOMINAL	2030 MHz	
2	3 dB Bandwidth:	87.6 MHz NOMINAL	128 MHz	
3	Passband Insertion Loss:	3.0 dB TYP. 10.0 dB Max.	4.6 dB	
4	Passband VSWR:	1.5:1 Max.	1.26:1	
5	Stopband Attenuation:	70 dB Min @ 1920 MHz 70 dB Min @ 2160 MHz	91.9 dB 79.2 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 10BP2040-87D6-CD-SFF

TEST DATA SUMMARY AT 50°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2040 MHz NOMINAL	2030 MHz	
2	3 dB Bandwidth:	87.6 MHz NOMINAL	127.2 MHz	
3	Passband Insertion Loss:	3.0 dB TYP. 10.0 dB Max.	4.97 dB	
4	Passband VSWR:	1.5:1 Max.	1.21:1	
5	Stopband Attenuation:	70 dB Min @ 1920 MHz 70 dB Min @ 2160 MHz	90.3 dB 76.6 dB	
6	Power Handling:	+30 dBm Max.	+30 dBm Max.	
7	Impedance:	50Ω	50Ω	



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TEST DATA AT 50°C

