



TYPICAL CHARACTERISTICS ON 10BP2160-93D5-CD-SFF

PMI MODEL: 10BP2160-93D5-CD-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 2160 MHz AND A NOMINAL BANDWIDTH OF 93.5 MHz. THIS UNIT HAS A TYPICAL INSERTION LOSS OF 10.0 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: 10BP2160-93D5-CD-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 2160 MHz AND A NOMINAL BANDWIDTH OF 93.5 MHz. THIS UNIT HAS A MAXIMUM INSERTION LOSS OF 10.0 dB INSIDE THE SMALL 2.00" x 0.50" x 0.50" PACKAGE OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- CENTER FREQUENCY: ----- 2160 MHz NOMINAL
- 3 dB BANDWIDTH: ----- 93.5 MHz NOMINAL
- PASSBAND INSERTION LOSS: ----- 10.0 dB MAXIMUM
- PASSBAND VSWR: ----- 1.5:1 MAXIMUM
- STOPBAND ATTENUATION: ----- 70 dB MINIMUM @ 2040 MHz
70 dB MINIMUM @ 2280 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

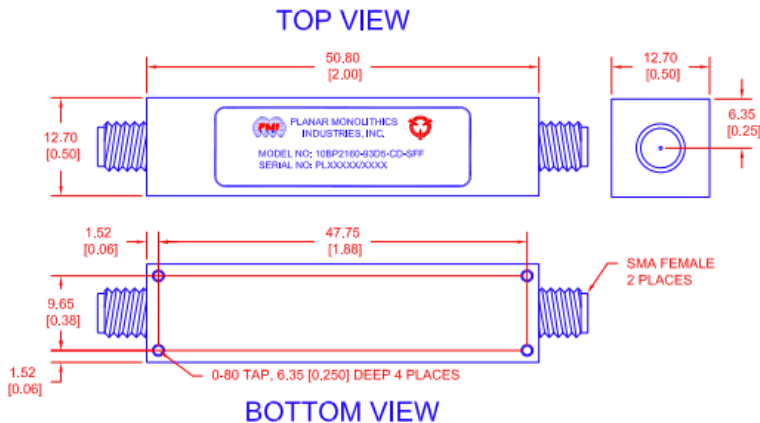
- TEMPERATURE: ----- -0 °C TO +50 °C (OPERATING)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D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

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

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	04/04/21
	A2	ECN # 21-0139	04/25/21

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN	M. Berry	04/04/21		PRODUCT FEATURE 10BP2160-93D5-CD-SFF	
CHECKED				SERIES	REV.
ISSUED				A	A2
				SCALE	SHEET
				N:S	1 OF 1



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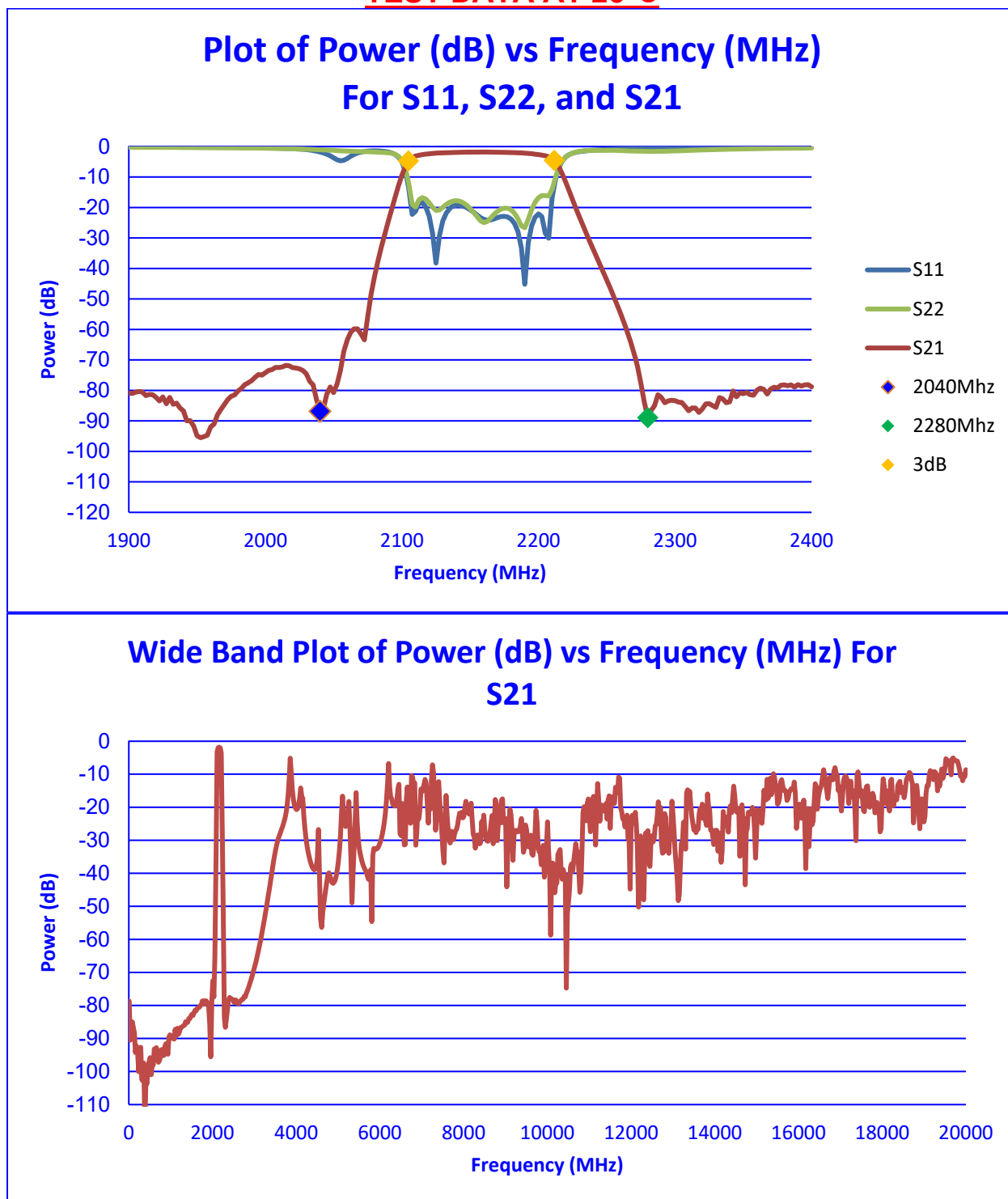
TEST DATA SUMMARY AT 25°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2160 MHz NOMINAL	2159 MHz	
2	3 dB Bandwidth:	93.5 MHz NOMINAL	106.8 MHz	
3	Passband Insertion Loss:	10.0 dB Max.	4.8 dB	
4	Passband VSWR:	1.5:1 Max.	1.37:1	
5	Stopband Attenuation:	70 dB Min @ 2040 MHz 70 dB Min @ 2280 MHz	86.8 dB 88.9 dB	
6	Power Handling:	+30 dBm Max.	+30 dBm Max.	
7	Impedance:	50Ω	50Ω	



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TEST DATA AT 25°C





TYPICAL CHARACTERISTICS ON 10BP2160-93D5-CD-SFF

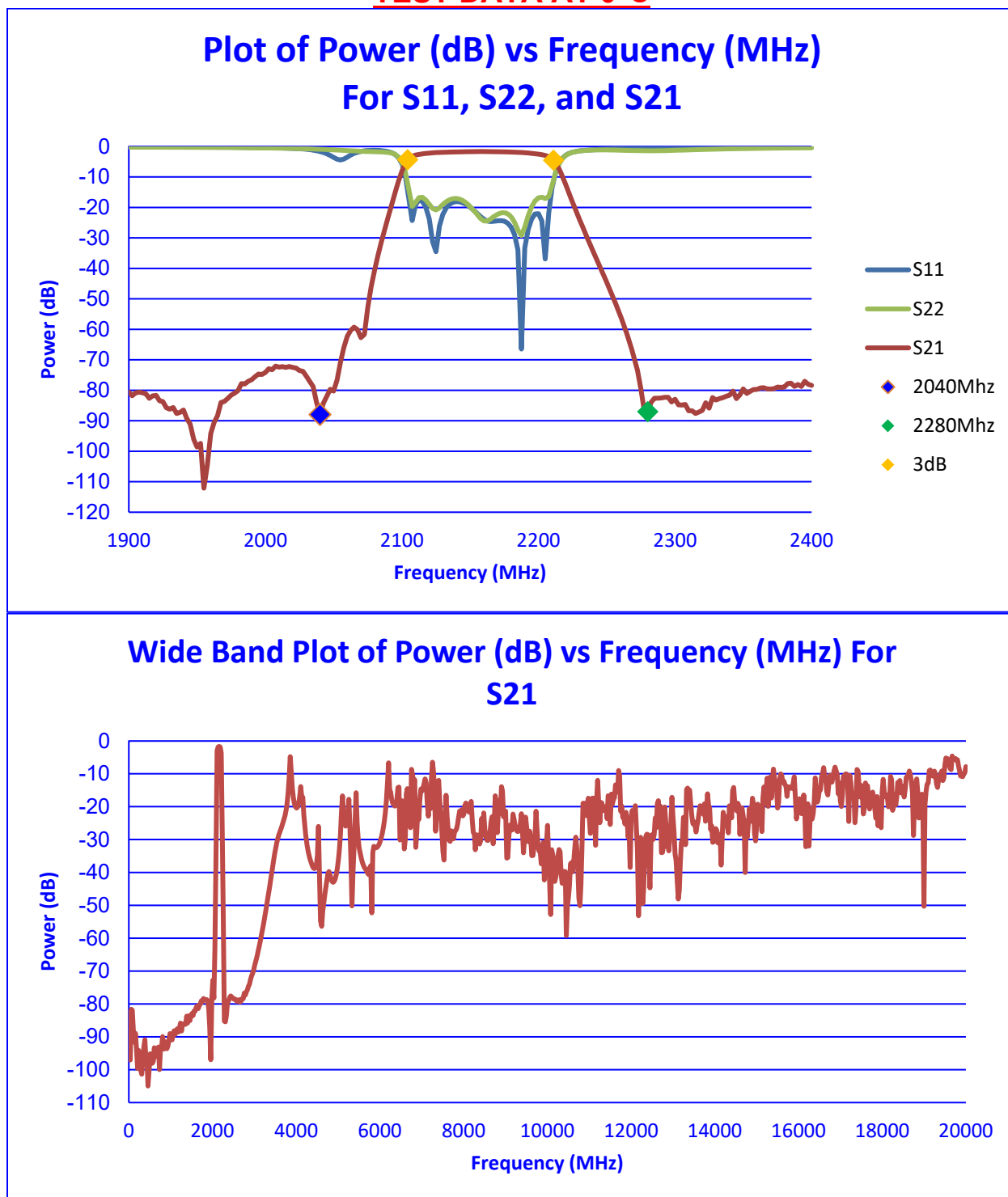
TEST DATA SUMMARY AT 0°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2160 MHz NOMINAL	2159 MHz	
2	3 dB Bandwidth:	93.5 MHz NOMINAL	106.8 MHz	
3	Passband Insertion Loss:	10.0 dB Max.	4.66 dB	
4	Passband VSWR:	1.5:1 Max.	1.35:1	
5	Stopband Attenuation:	70 dB Min @ 2040 MHz 70 dB Min @ 2280 MHz	87.9 dB 87 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 10BP2160-93D5-CD-SFF

TEST DATA SUMMARY AT 50°C

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Center Frequency:	2160 MHz NOMINAL	2159 MHz	
2	3 dB Bandwidth:	93.5 MHz NOMINAL	106.8 MHz	
3	Passband Insertion Loss:	10.0 dB Max.	4.92 dB	
4	Passband VSWR:	1.5:1 Max.	1.39:1	
5	Stopband Attenuation:	70 dB Min @ 2040 MHz 70 dB Min @ 2280 MHz	84.2 dB 85.9 dB	
6	Power Handling:	+30 dBm Max.	+30 dBm Max.	
7	Impedance:	50Ω	50Ω	



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TEST DATA AT 50°C

