



TYPICAL CHARACTERISTICS ON APD-2-100M18G-SFF

PMI MODEL APD-2-100M18G-SFF IS A 100 MHz TO 18 GHz, 2-WAY, 0°, 50 Ω POWER SPLITTER/COMBINER THAT PROVIDES EXCELLENT POWER HANDLING UP TO 0.6 W WITH LOW INSERTION LOSS, GOOD ISOLATION, AND LOW PHASE AND AMPLITUDE UNBALANCE. THE PACKAGE SIZE IS 1.0" $\times$ 1.0" $\times$ 0.4" WITH SMA FEMALE CONNECTORS.

PICTURE



REPORTED BY: ANTON L.
TESTED BY: ANTON L.
DATE: 6/1/2026

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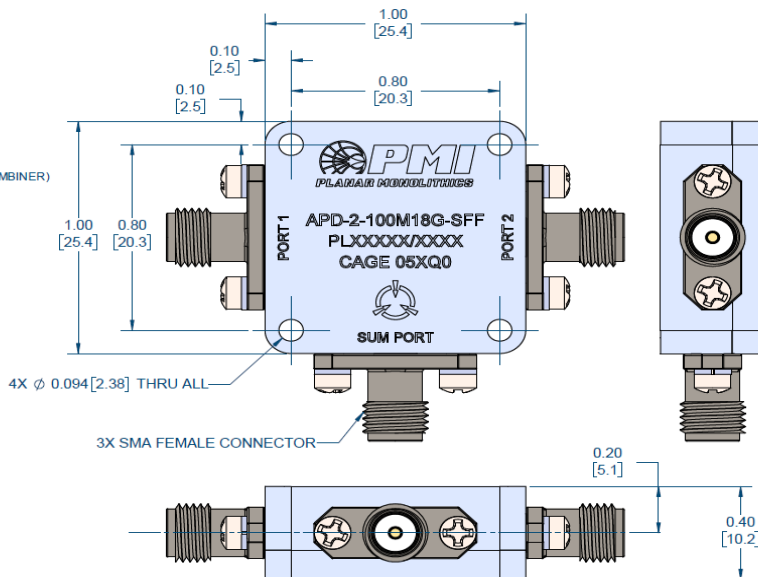
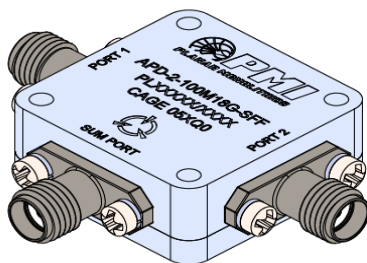
OUTLINE

DESCRIPTION:

PMI MODEL APD-2-100M18G-SFF IS A 100 MHz TO 18 GHz, 2-WAY, 0°, 50 Ω POWER SPLITTER/COMBINER THAT PROVIDES EXCELLENT POWER HANDLING UP TO 0.6 W WITH LOW INSERTION LOSS, GOOD ISOLATION, AND LOW PHASE AND AMPLITUDE UNBALANCE. THE PACKAGE SIZE IS 1.0" × 1.0" × 0.4" WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS:

- FREQUENCY RANGE: 100 MHz TO 18 GHz
- INSERTION LOSS: 8.0 dB MAX.
- ISOLATION: 7 dB MIN. (100 MHz - 4 GHz)
15 dB MIN. (4 - 18 GHz)
- PHASE UNBALANCE: 20° MAX.
- AMPLITUDE UNBALANCE: 0.5 dB MAX.
- VSWR: 2.0:1 MAX. (SUM PORT)
- INPUT POWER: 27 dBm CW MAX. (AS A SPLITTER)
24 dBm CW MAX. ON EACH INPUT (AS A COMBINER)
- FINISH: NICKEL PLATED



ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103 COND. B
- SHOCK: MIL-STD-202, METHOD 213 COND. B
- VIBRATION: MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107 COND. A

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DRAWN	AL	1/3/26	OUTLINE	
DESIGNED				
TESTED				
SIZE		PCB NO.	DWG NO.	REV.
B		05XQ0	27054400	A1
SCALE 3:1		SHEET 1 OF 1		

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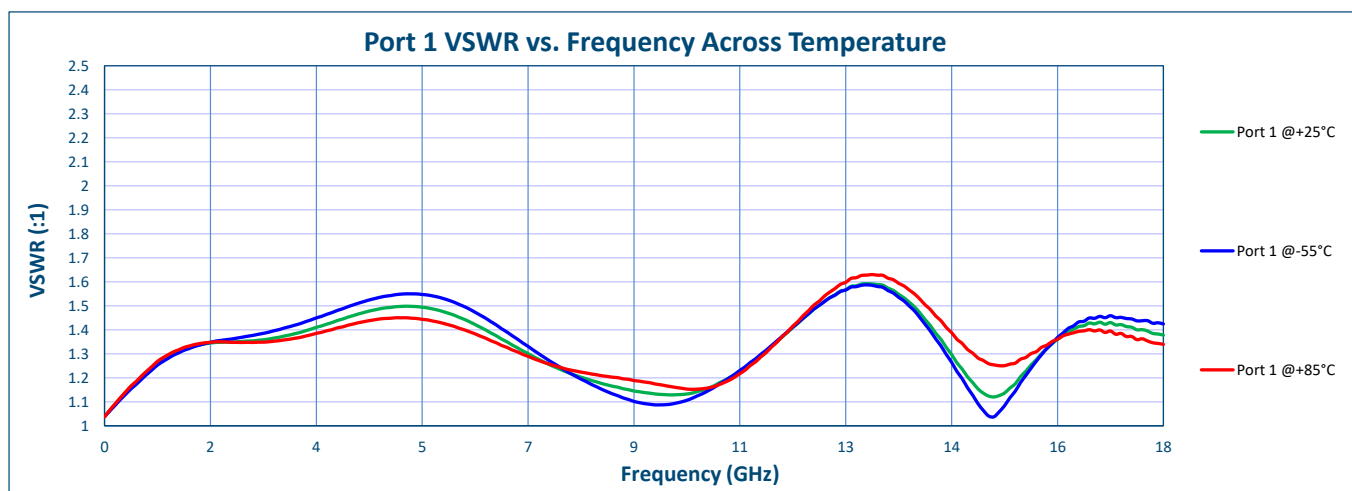
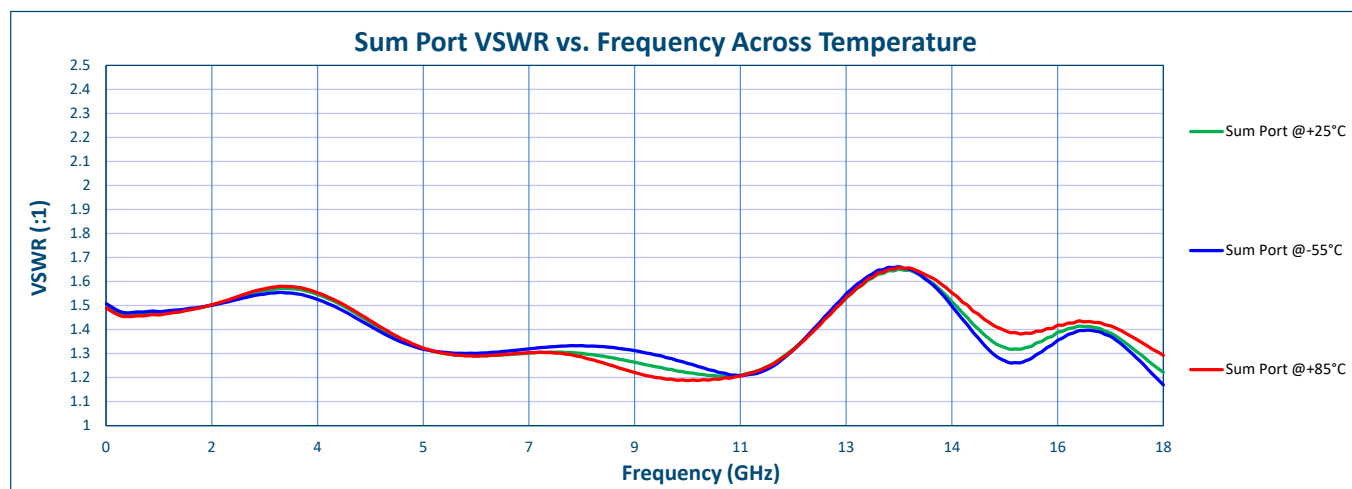
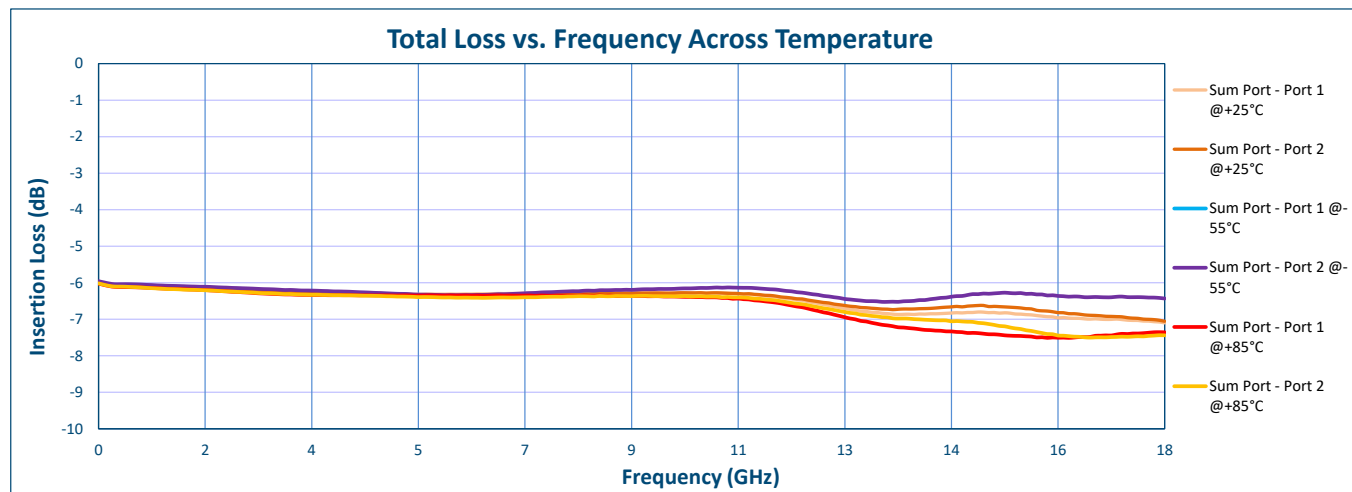
TYPICAL CHARACTERISTICS ON APD-2-100M18G-SFF SPECIFICATIONS

Test Item No.	Parameters	Specified Value	Measured Value		
			-55°C	+25°C	+85°C
1	Frequency Range:	100 MHz TO 18 GHz	100 MHz TO 18 GHz		
2	Insertion Loss:	8 dB MAX.	6.6 dB	7.1 dB	7.5 dB
3	Isolation:	7 dB MIN. (100 MHz TO 4 GHz) 15 dB MIN. (4 TO 18 GHz)	9.7 dB (0.1 TO 4 GHz) 17.6 dB (4 TO 18 GHz)	9.8 dB (0.1 TO 4 GHz) 17.6 dB (4 TO 18 GHz)	9.8 dB (0.1 TO 4 GHz) 17.5 dB (4 TO 18 GHz)
4	Phase Unbalance:	20° MAX.	12.9°	11.1°	10.5°
5	Amplitude Unbalance:	0.5 dB MAX.	0.09 dB	0.18 dB	0.31 dB
6	VSWR:	2.0:1 MAX. (ALL PORTS)	1.66:1 (SUM Port) 1.59:1 (Port 1) 1.64:1 (Port 2)	1.65:1 (SUM Port) 1.59:1 (Port 1) 1.58:1 (Port 2)	1.66:1 (SUM Port) 1.63:1 (Port 1) 1.54:1 (Port 2)

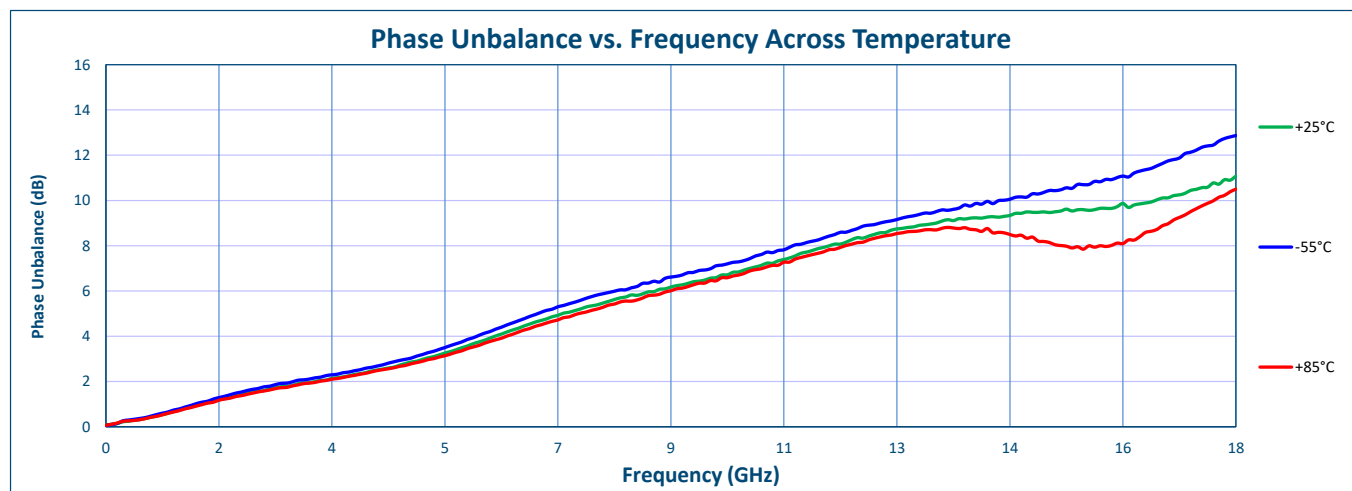
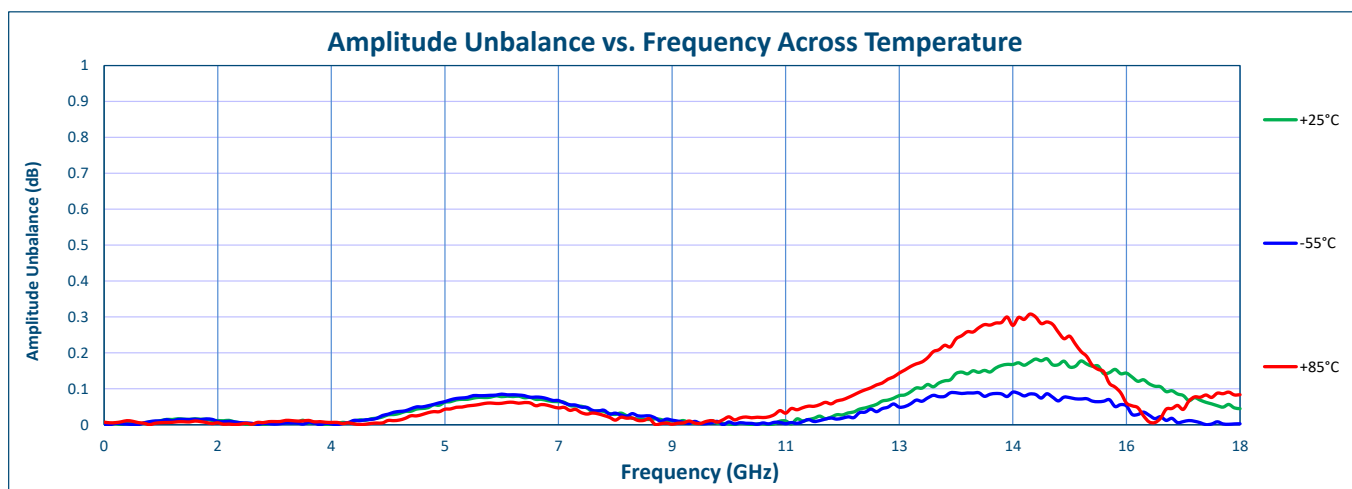
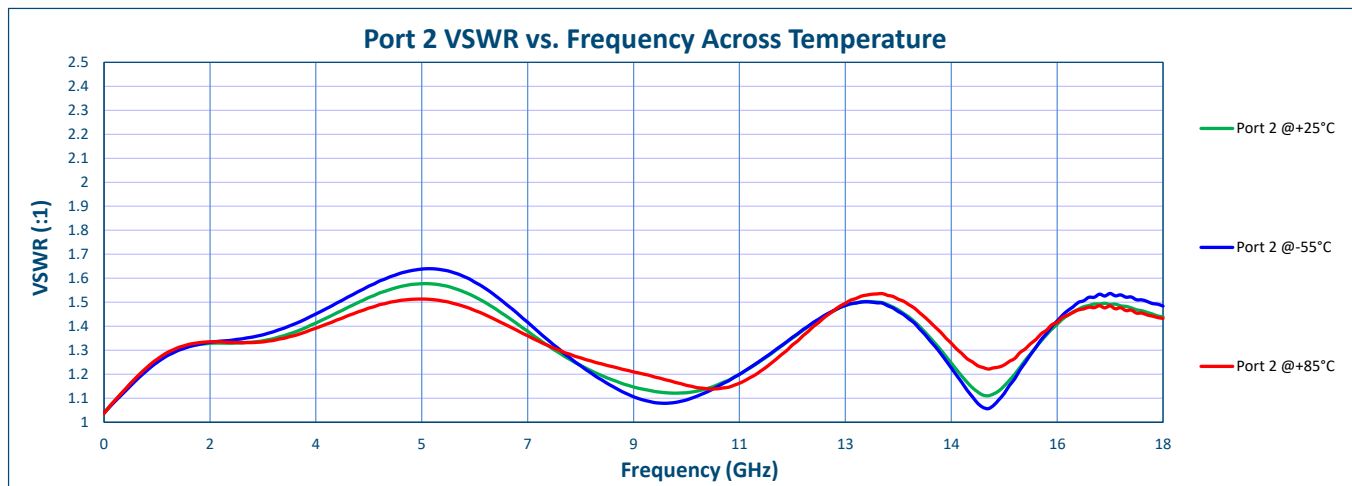
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