

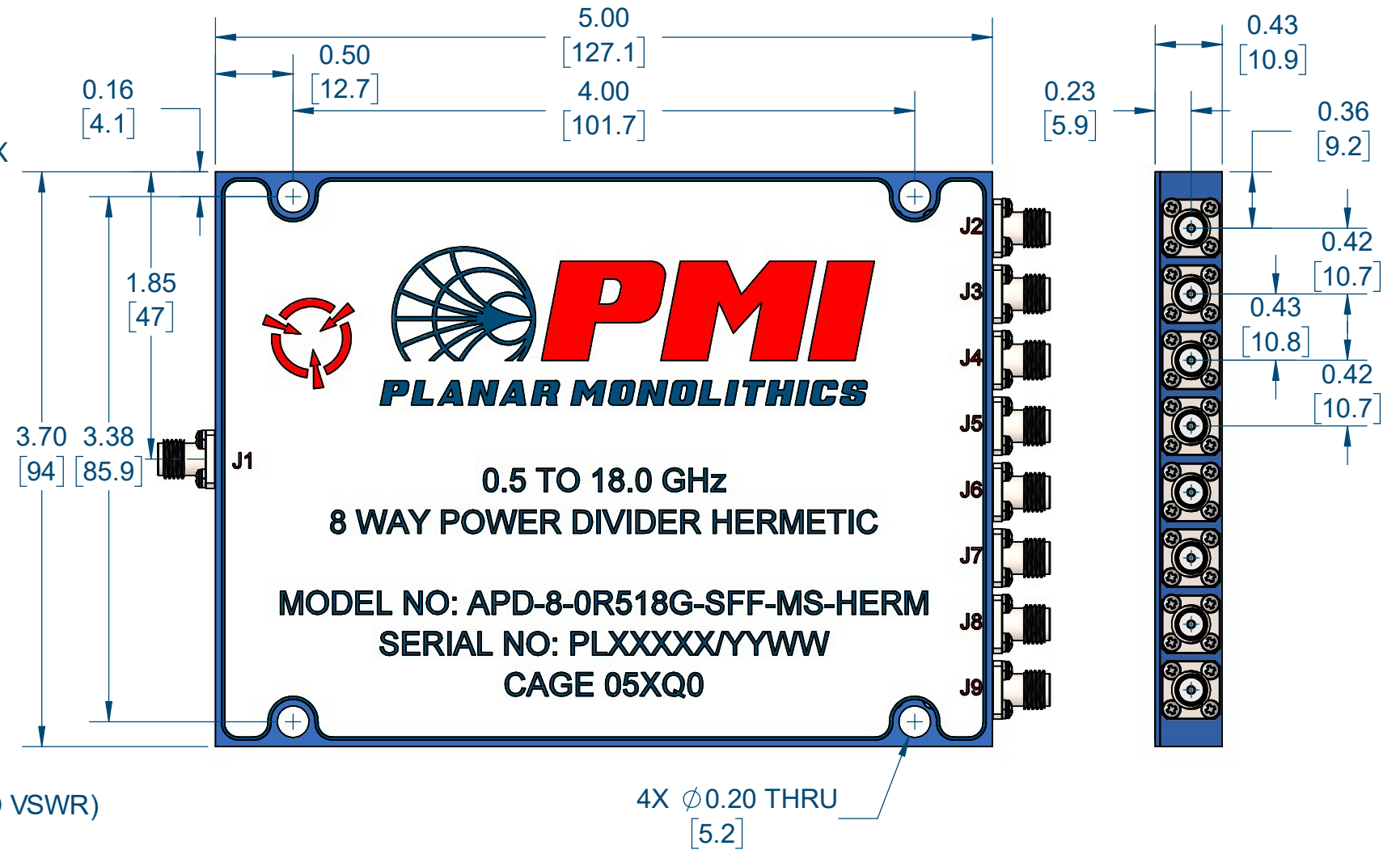
**DESCRIPTION:**

PMI MODEL APD-8-0R518G-SFF-MS-HERM IS AN EIGHT WAY POWER DIVIDER OPERATING OVER THE 0.5 TO 18 GHz FREQUENCY RANGE. THE MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS AND IS HERMETICALLY SEALED.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/4/2026	

**SPECIFICATIONS:**

- **FREQUENCY RANGE:**..... 0.5 GHz TO 18 GHz
- **INSERTION LOSS:**..... 2.0 dB (0.5 TO 1 GHz) MAX  
(OVER THEORETICAL POWER SPLIT OF 9 dB) 2.2 dB (1 TO 2 GHz) MAX  
2.5 dB (2 TO 8 GHz) MAX  
5.2 dB (8 TO 18 GHz) MAX
- **INSERTION LOSS FLATNESS:**..... ±1.0 dB (0.5 TO 18 GHz) MAX  
(REF LINE OF BEST FIT)
- **INPUT VSWR:**..... 2.5:1 (0.5 TO 1 GHz) TYP  
2.6:1 (1 TO 2 GHz) MAX  
2.1:1 (2 TO 8 GHz) MAX  
2.0:1 (8 TO 18 GHz) TYP
- **OUTPUT VSWR:**..... 1.5:1 (0.5 TO 2 GHz) MAX  
1.7:1 (2 TO 8 GHz) TYP  
1.8:1 (8 TO 18 GHz) TYP
- **ISOLATION:**..... 10 dB (0.5 TO 1 GHz) TYP  
10 dB (1 TO 2 GHz) TYP  
20 dB (2 TO 18 GHz) TYP
- **AMPLITUDE BALANCE:**..... ±0.5 dB (0.5 TO 8 GHz) MAX  
±1.2 dB (8 TO 18 GHz) MAX
- **PHASE BALANCE:**..... ±3° (0.5 TO 2 GHz) MAX  
±4° (2 TO 8 GHz) MAX  
±10° (8 TO 18 GHz) MAX
- **AVERAGE POWER:**..... 25 WATTS (INTO 1.2:1 LOAD VSWR)
- **CONNECTORS:**..... SMA FEMALE
- **FINISH:**..... PAINTED BLUE




**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

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

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01</small>	APPROVALS	DATE	 <small>7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 682-5019, FAX: (301) 682-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED</small>				
	DRAWN E. CASTILLO	6/4/2026					
	REISSUED		TITLE OUTLINE APD-8-0R518G-SFF-MS-HERM	SIZE B	FSCM NO. 05XQ0	DWG NO. 27055180	REV. A1
			SCALE 1:1	SHEET 1 OF 1			