

# DESCRIPTION

PMI MODEL: APD-8-0R520G-292FF IS AN EIGHT WAY POWER DIVIDER OPERATING OVER THE 0.5 TO 20.0 GHz FREQUENCY RANGE. THIS MODEL HAS A MAXIMUM INSERTION LOSS OF 2.0 dB FROM 0.5 TO 8.0 GHz AND 3.2 dB MAXIMUM BETWEEN 8.0 TO 18.0 GHz. THE COMPACT 5.0" x 3.7" x 0.43" HOUSING IS OUTFITTED WITH 2.92 mm FEMALE CONNECTORS.

# SPECIFICATIONS

● FREQUENCY RANGE: ---	0.5 TO 20.0 GHz
● INSERTION LOSS: -----	0.5 to 1 GHz – 2.0 dB Max. 1 to 2 GHz – 2.0 dB Max. 2 to 8 GHz - 2.0 dB Max. 8 to 18 GHz - 3.2 dB Max. 18 to 20 GHz - 5.0 dB Max.
● Insertion Loss Flatness (Ref Line of Best Fit)	0.5 to 20 GHz - ± 1 dB Max. 1.0 to 20 GHz - ± 1 dB Max. 2.0 to 20 GHz - ± 1 dB Max. 0.5 to 18 GHz - ± 1 dB Max. 1.0 to 18 GHz - ± 1 dB Max. 2.0 to 18 GHz - ± 1 dB Max.
● VSWR (INPUT): -----	0.5 to 1 GHz – 2.5:1 Typ. 1 to 2 GHz – 2.6:1 Max. 2 to 8 GHz - 2.1:1 Max. 8 to 18 GHz - 2.0:1 Max. 18 to 20 GHz - 2.0:1 Typ.
● VSWR (OUTPUT): -----	0.5 to 1 GHz – 1.5:1 Max. 1 to 2 GHz – 1.5:1 Max. 2 to 8 GHz - 1.7:1 Max. 8 to 18 GHz - 1.8:1 Max. 18 to 20 GHz - 2.0:1 Max.

● ISOLATION: -----	0.5 to 1 GHz – 10 dB Typ. 1 to 2 GHz – 10 dB Typ. 2 to 8 GHz - 20 dB Typ. 8 to 18 GHz - 20 dB Typ. 18 to 20 GHz - 15 dB Typ.
● AMPLITUDE BALANCE: --	0.5 to 1 GHz - ± 0.5 dB Max. 1 to 2 GHz - ± 0.5 dB Max. 2 to 8 GHz - ± 0.3 dB Max. 8 to 18 GHz - ± 0.5 dB Max. 18 to 20 GHz - ± 1.2 dB Max.
● PHASE BALANCE: -----	0.5 to 1 GHz – 5° Max. 1 to 2 GHz – 3° Max. 2 to 8 GHz - 4° Max. 8 to 18 GHz - 10° Max. 18 to 20 GHz - 15° Typ.

● AVERAGE POWER: -----	25 WATTS (INTO 1.2:1 LOAD VSWR)
● CONNECTORS: -----	2.92 mm FEMALE REMOVABLE
● SIZE: -----	5.00" x 3.70" x 0.43" [127.1 x 94.0 x 10.9 mm] EXCLUDING CONNECTORS
● FINISH: -----	PAINTED BLUE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	09/22/20	

# ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)
- 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

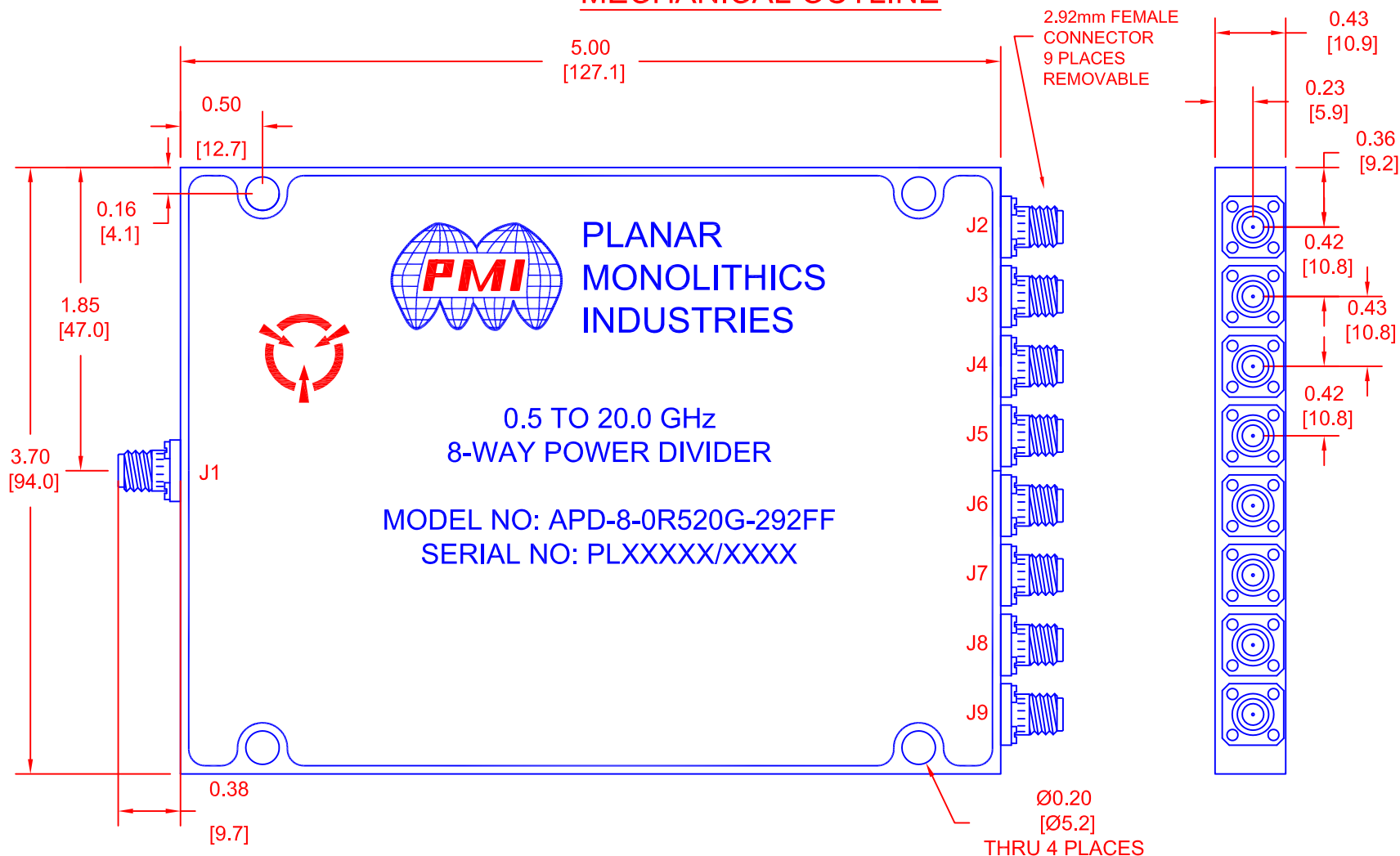
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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN		9/22/20	PRODUCT FEATURE		
CHECKED			APD-8-0R520G-292FF		
ISSUED			0.5 to 20.0 GHz Eight Way Power Divider		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0		PRELIMINARY A1		
SCALE	N:S		SHEET 1 OF 2		

# MECHANICAL OUTLINE



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

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SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0		A1		
SCALE	N:S	SHEET	2 OF 2		
			PRELIMINARY		