

DESCRIPTION

PMI MODEL: APD-8-1G18G-292FF IS AN EIGHT WAY POWER DIVIDER OPERATING OVER THE 1.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL HAS A MAXIMUM INSERTION LOSS OF 2.0 dB FROM 1.0 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

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|--|---|
| ● FREQUENCY RANGE: --- | 1.0 TO 18.0 GHz |
| ● INSERTION LOSS: ----- | 1 to 2 GHz – 2.0 dB Max. 2 to 8 GHz - 2.0 dB Max. 8 to 18 GHz - 3.2 dB Max. |
| ● Insertion Loss Flatness (Ref Line of Best Fit) | 1.0 to 18 GHz - ± 1 dB Max. 2.0 to 18 GHz - ± 1 dB Max. |
| ● VSWR (INPUT): ----- | 1 to 2 GHz – 2.6:1 Max. 2 to 8 GHz - 2.1:1 Max. 8 to 18 GHz - 2.0:1 Max. |
| ● VSWR (OUTPUT): ----- | 1 to 2 GHz – 1.5:1 Max. 2 to 8 GHz - 1.7:1 Max. 8 to 18 GHz - 1.8:1 Max. |

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

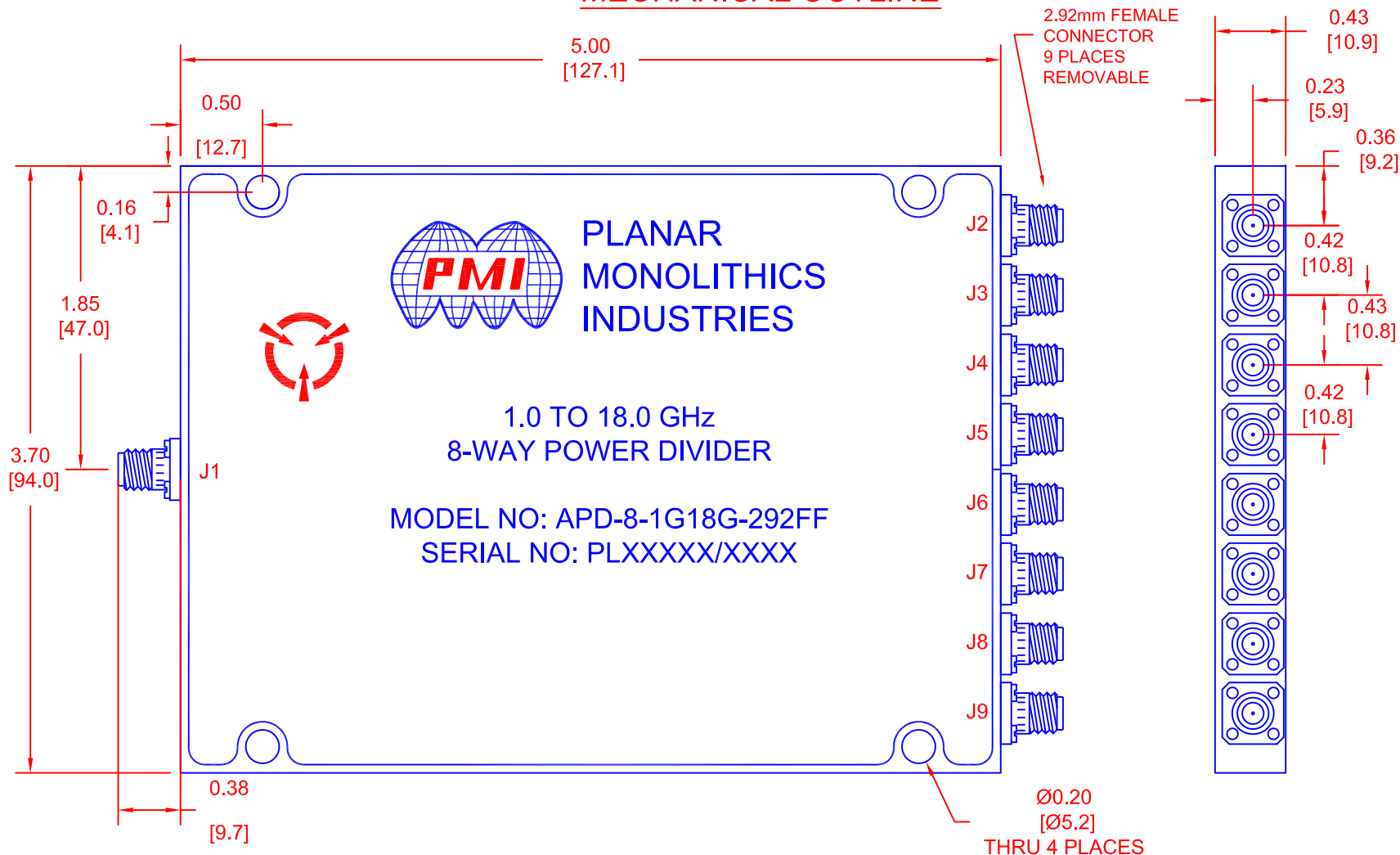
PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



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|-----------|----------|---------|---|--------|---------|
| APPROVALS | | DATE | TITLE | | |
| DRAWN | | 9/22/20 | PRODUCT FEATURE | | |
| CHECKED | | | APD-8-1G18G-292FF | | |
| ISSUED | | | 1.0 to 18.0 GHz Eight Way Power Divider | | |
| SIZE | FSCM NO. | DWG NO. | PRELIMINARY | | REV. A1 |
| A | 05XQ0 | | | | |
| 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 | | PRELIMINARY | | A1 |
| SCALE | | N:S | SHEET | | 2 OF 2 |