

# DESCRIPTION

PMI MODEL: APD-16-218-292FF IS A SIXTEEN WAY POWER DIVIDER OPERATING OVER THE 2.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL HAS A MAXIMUM INSERTION LOSS OF 3.0 dB FROM 2.0 TO 8.0 GHz AND 5.0 dB MAXIMUM BETWEEN 8.0 TO 18.0 GHz. THE COMPACT 6.2" x 7.1" x 0.43" HOUSING IS OUTFITTED WITH 2.92 mm FEMALE CONNECTORS.

# SPECIFICATIONS

|   |  |                                |
|---|--|--------------------------------|
| FREQUENCY RANGE: ----   | 2.0 TO 18.0 GHz                              |                                |
| INSERTION LOSS (OVER THEORETICAL POWER SPLIT OF 12 DB): ----- | 2 to 8 GHz<br>8 to 18 GHz                    | 3.0 dB Max.<br>5.0 dB Max.     |
| INSERTION LOSS FLATNESS (REF LINE OF BEST FIT): -----         | 2 to 8 GHz<br>8 to 18 GHz                    | ± 1.0 dB Typ.<br>± 1.0 dB Typ. |
| ISOLATION: -----  | 2 to 8 GHz<br>8 to 18 GHz                    | 20 dB Typ.<br>20 dB Typ.       |
| VSWR (INPUT): -----   | 2 to 8 GHz<br>8 to 18 GHz                    | 2.5:1 Max.<br>2.1:1 Max.       |
| VSWR (OUTPUT): -----  | 2 to 8 GHz<br>8 to 18 GHz                    | 1.8:1 Max.<br>1.8:1 Max.       |
| AMPLITUDE BALANCE: --   | 2 to 8 GHz<br>8 to 18 GHz                    | ± 0.5 dB Max.<br>± 1.0 dB Max. |
| PHASE BALANCE: -----  | 2 to 8 GHz<br>8 to 18 GHz                    | ± 10° Typ.<br>± 20° Typ.       |
| AVERAGE POWER: -----  | 25 Watts (+44dBm)<br>(Into 1.2:1 Load VSWR)  |                                |
| CONNECTORS: -----   | 2.92 mm FEMALE<br>REMOVABLE                  |                                |
| SIZE: -----   | [6.2" x 7.1 x 0.43"]<br>EXCLUDING CONNECTORS |                                |
| FINISH: -----   | PAINTED BLUE                                 |                                |

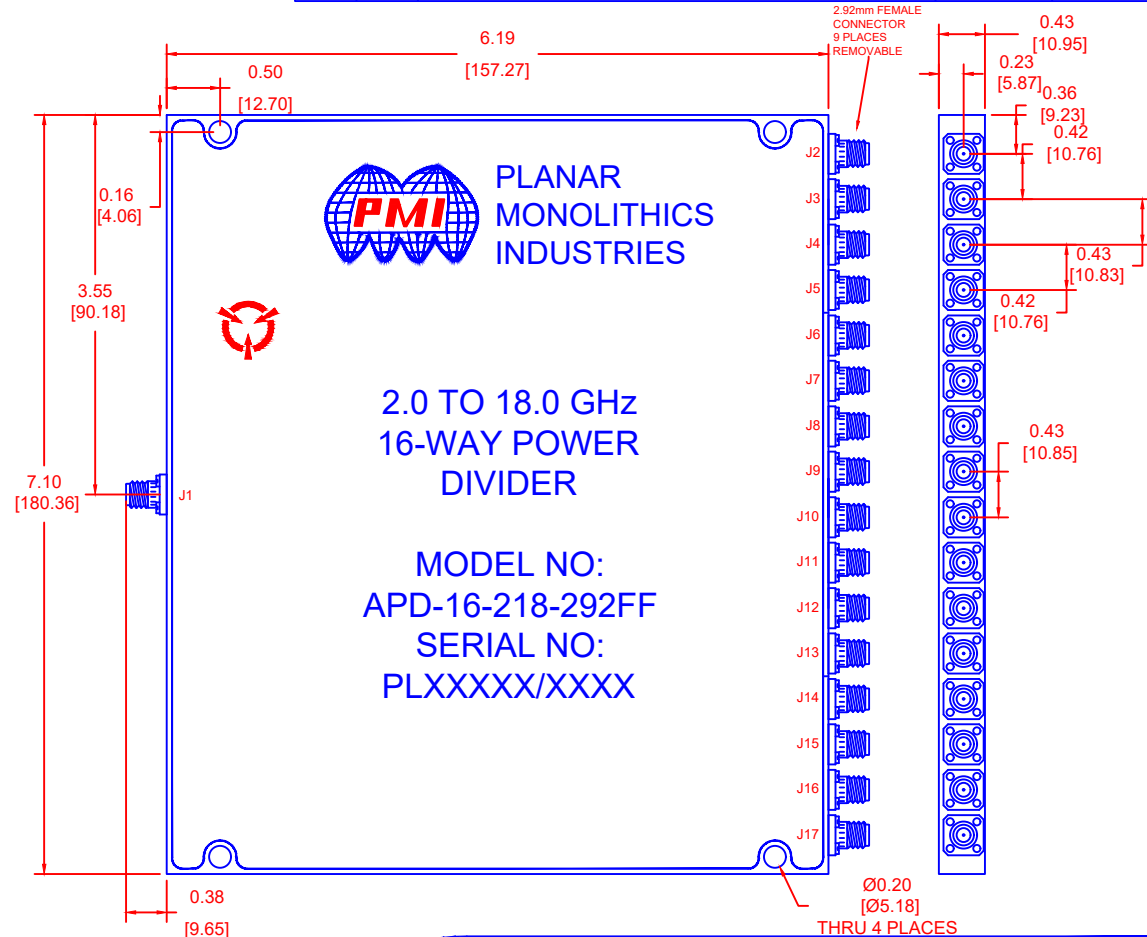
# ENVIRONMENTAL RATINGS

- 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**

| REVISIONS |      |             |      |          |
|-----------|------|-------------|------|----------|
| ZONE      | REV. | DESCRIPTION | DATE | APPROVED |
|           | -    | Preliminary |      |          |



## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

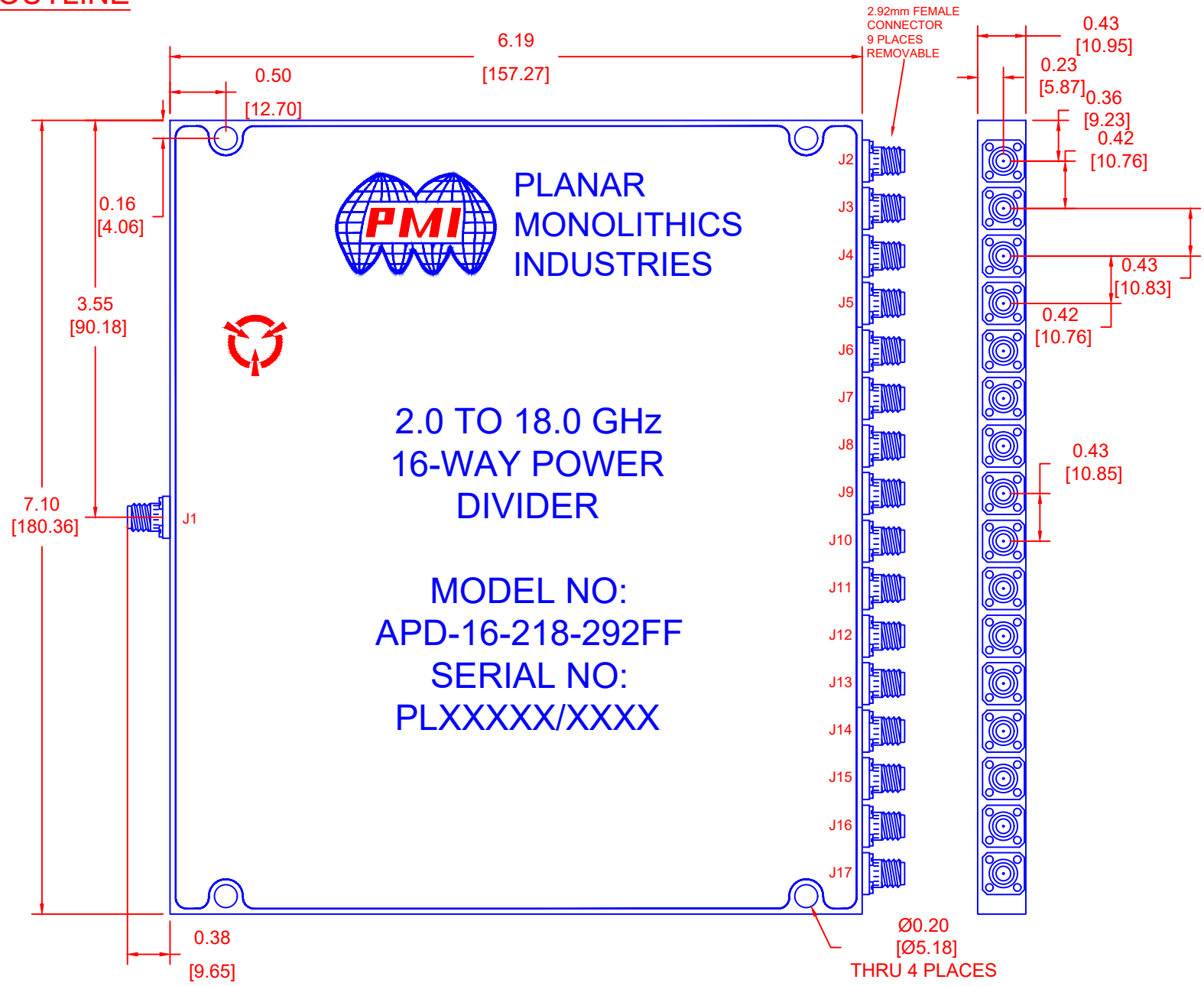
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



|                  |  |          |  |          |              |
|------------------|--|----------|--|----------|--------------|
| APPROVALS        |  | DATE     | TITLE  |          |              |
| DRAWN <i>SMP</i> |  | 10/26/20 | PRODUCT FEATURE<br>APD-16-218-292FF<br>2.0 to 18.0 GHz Sixteen Way Power Divider |          |              |
| CHECKED          |  |          | SIZE   | FSCM NO. | DWG NO.      |
| ISSUED           |  |          | A  | 05XQ0    | Preliminary  |
|                  |  |          | SCALE  | N:S      | SHEET 1 OF 3 |

# MECHANICAL OUTLINE



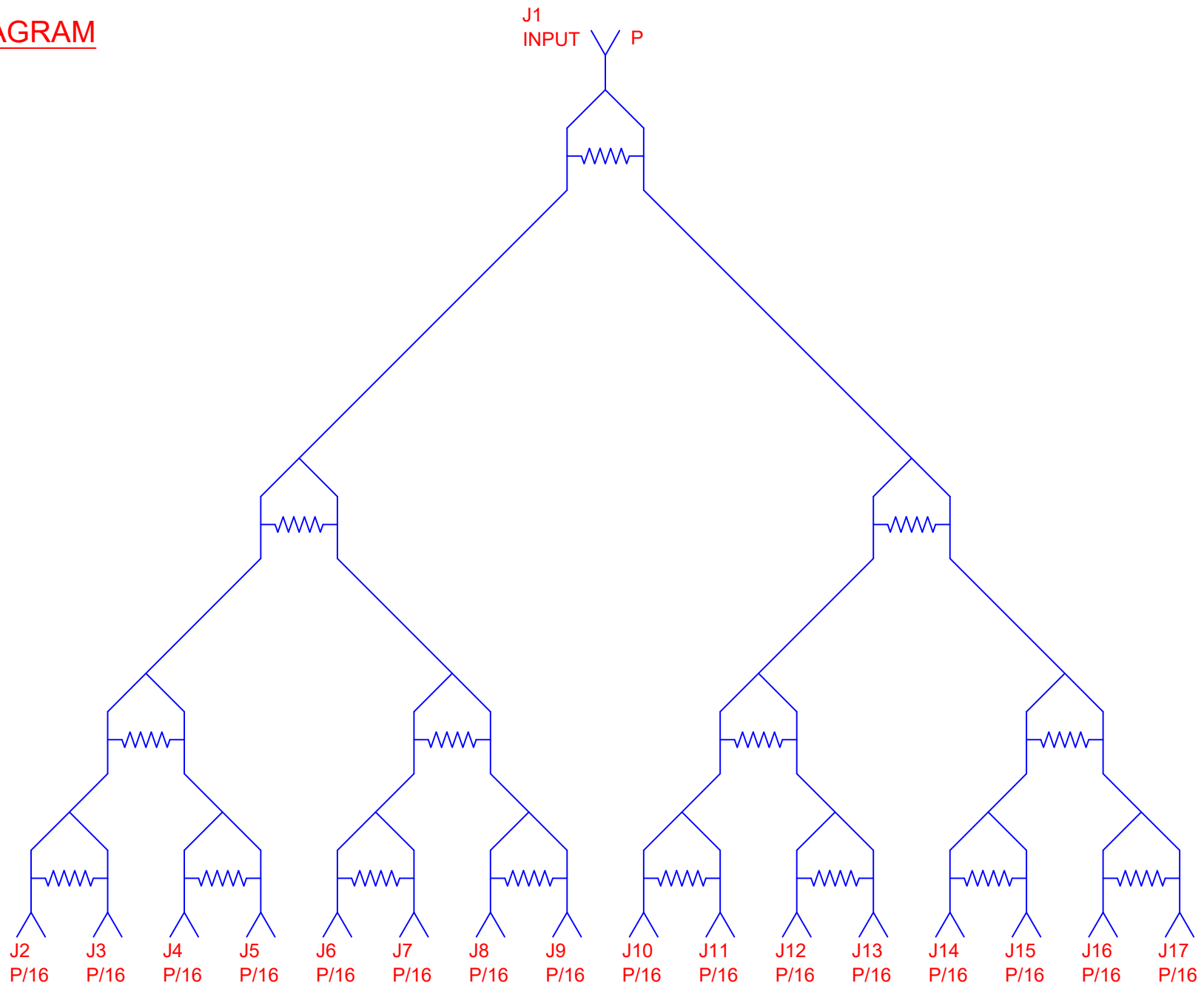
ALL DIMENSIONS ARE IN mm [INCH]  
TOLERANCES:  
X.XX ± 0.508 [0.020]  
X.XXX ± 0.254 [0.010]

**PMI CONFIDENTIAL AND PROPRIETARY**

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

|           |            |         |  |             |              |
|-----------|------------|---------|--|-------------|--------------|
| APPROVALS |            | DATE    | TITLE<br><b>PRODUCT FEATURE</b><br>APD-16-218-292FF<br>2.0 to 18.0 GHz Sixteen Way Power Divider |             |              |
| DRAWN     | <i>SMH</i> | 5/26/20 | SIZE   | FSCM NO.    | REV.         |
| CHECKED   |            |         | A  | 05XQ0       | -            |
| ISSUED    |            |         | DWG NO.  | Preliminary |              |
|           |            |         | SCALE  | N:S         | SHEET 2 OF 3 |

# BLOCK DIAGRAM



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

**PMI CONFIDENTIAL AND PROPRIETARY**

|           |          |             |   |  |  |
|-----------|----------|-------------|---|--|--|
| APPROVALS |          | DATE        | TITLE                                     |  |  |
| DRAWN     |          | 5/26/20     | PRODUCT FEATURE                           |  |  |
| CHECKED   |          |             | APD-16-218-292FF                          |  |  |
| ISSUED    |          |             | 2.0 to 18.0 GHz Sixteen Way Power Divider |  |  |
| SIZE      | FSCM NO. | DWG NO.     | REV.                                      |  |  |
| A         | 05XQ0    | Preliminary | -   |  |  |
| SCALE     | N:S      | SHEET       | 3 OF 3                                    |  |  |