

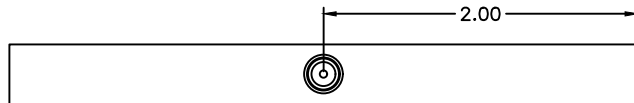
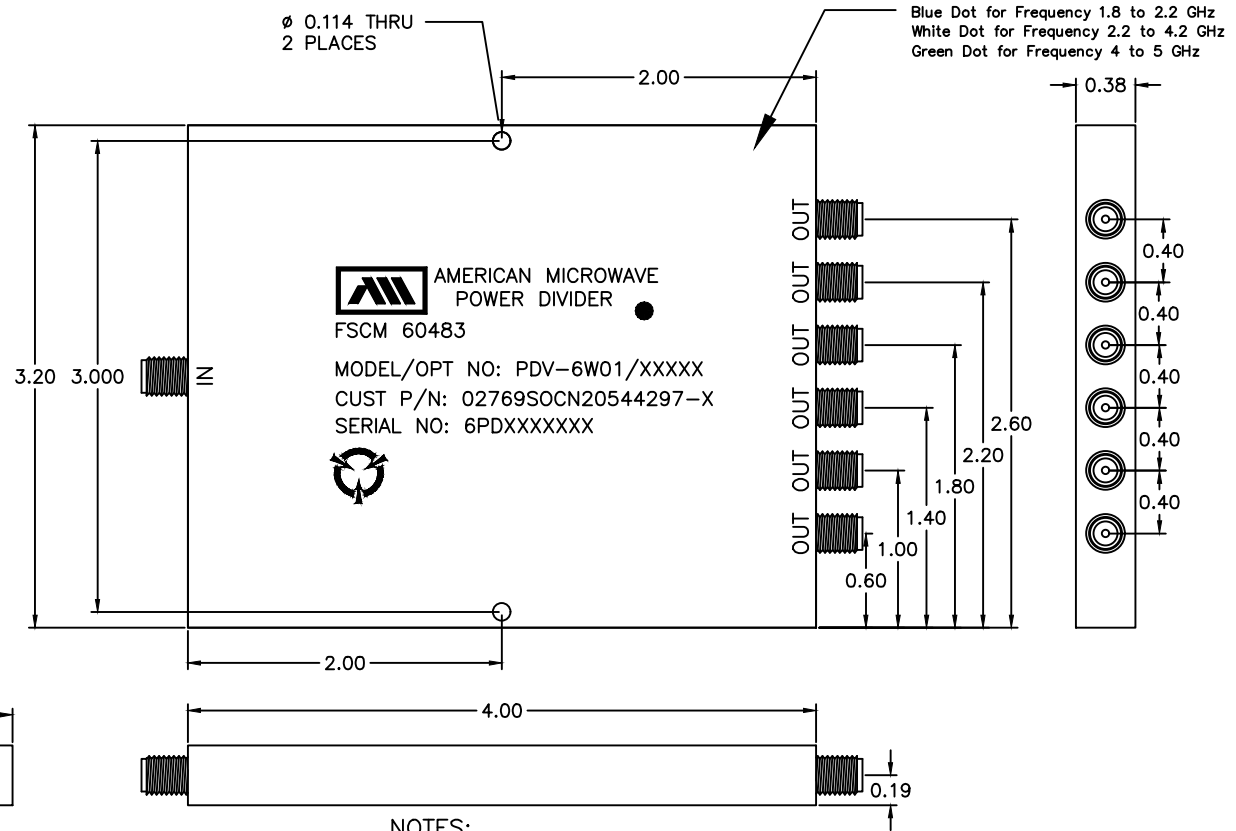
DESCRIPTION

SIX WAY POWER DIVIDER.

| REVISIONS | | | | |
|-----------|------|----------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | A | SEE ER# 057-18 | 11/20/18 | RRA |
| | B | ECN# 19-051 | 7/3/19 | RRA |
| | C | ECN# 21-007 | 7/26/21 | RRA |

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 4.2 GHz
- INSERTION LOSS: 1.2 dB MAX.
- INSERTION LOSS VARIANCE: 0.9 dB MAXIMUM
- AMPLITUDE IMBALANCE: 0.7 dB MAXIMUM
- ISOLATION: 16 dB MINIMUM
- PHASE BALANCE: 8° MAXIMUM
- VSWR: 1.4:1 MAXIMUM (COMMON)
1.4:1 MAXIMUM (N PORT)
- POWER RATING: 1 WATT AT EACH PORT WHEN USED AS A NON-COHERENT OR COHERENT COMBINER.
- ELECTRICAL LENGTH MATCHING: ±2° MAXIMUM
- NOMINAL ELECTRICAL LENGTH: 959°
- COMBINER TO COMBINER ISOLATION: 90 dB MINIMUM



NOTES:

1. INSERTION LOSS ABOVE THEORETICAL SPLITTING LOSS.
2. SIZE DOES NOT INCLUDE CONNECTORS.
3. THE REQUIREMENT SHALL APPLY FOR ANY PAIR OF PORTS FOR THE TWO COMBINERS; A PORT ON ONE COMBINER IS EXCITED, CROSSTALK SIGNAL LEVEL IS MEASURED AT A PORT ON THE OTHER COMBINER. ALL OTHER PORTS ARE TERMINATED. ISOLATION REQUIREMENT SHALL APPLY FOR ANY POSITION AND ORIENTATION FOR THE TWO COMBINERS WITH MINIMUM PHYSICAL SEPARATION OF 0.25 INCH.

ENVIRONMENTAL RATINGS

- **TEMPERATURE** +32°F (0°C) TO +122°F (+60°C) (OPERATING)
-13°F (-25°C) TO +146°F (+63°C) (STORAGE)
- **HUMIDITY** RH OF 0% TO 95% NON-CONDENSING (OPERATING)
RH OF 0% TO 95% (SURVIVAL)
RH OF 10% TO 100% (PACKAGE)
- **ALTITUDE** 50,000 Feet (NON-PRESSURIZED COMPARTMENT)
- **ATMOSPHERIC PRESSURE** 13.7 TO 15.7 PSI (OPERATING ATMOSPHERIC PRESSURE)
ATMOSPHERIC PRESSURE ASSOCIATED WITH ALTITUDES UP TO 15,000 FT ABOVE SEA LEVEL. (SURVIVAL ATMOSPHERIC PRESSURE)
- **OPERATIONAL SHOCK** TABLE 3.4.6.3-1 AND FIGURE 3.4.6.3-1 OF 20544297
- **TRANSPORTATION VIBRATION** MIL-STD-810G/1 METHOD 514.7 CATEGORIES 4a AND 10
FIGURE 3.4.7.1-1 OF 20544297
- **OPERATIONAL VIBRATION** MIL-STD-167-1A MAX FREQUENCY NO TO EXCEED 25 Hz
TABLE 3.4.7.2-1 OF 20544297
- **MTBF**: 51.9 MILLION HOURS

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION
* Units are designed to meet Environmental ratings but not tested.
If Environmental Testing is required, please contact Sales Department.

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.030
X.XXX ±0.010
ANGLE ±1°

| | | | | | |
|--------------------------------|--|--|-------------------|---|---------------------|
| | | AMERICAN MICROWAVE CORPORATION MANASSAS, VIRGINIA | | | |
| | | ISO 9001:2015 CERTIFIED | | | |
| APPROVALS RJA RRA RRA | | DATE 11/19/18 7/26/21 7/6/21 | | TITLE PRODUCT FEATURE PDV-6W01 OPT. 2024 | |
| DRAWN RJA | | SIZE A | FSCM NO. 60483 | | DWG NO. 100-8915 |
| ENG. RRA | | SCALE N:S | | SHEET 1 OF 1 | |