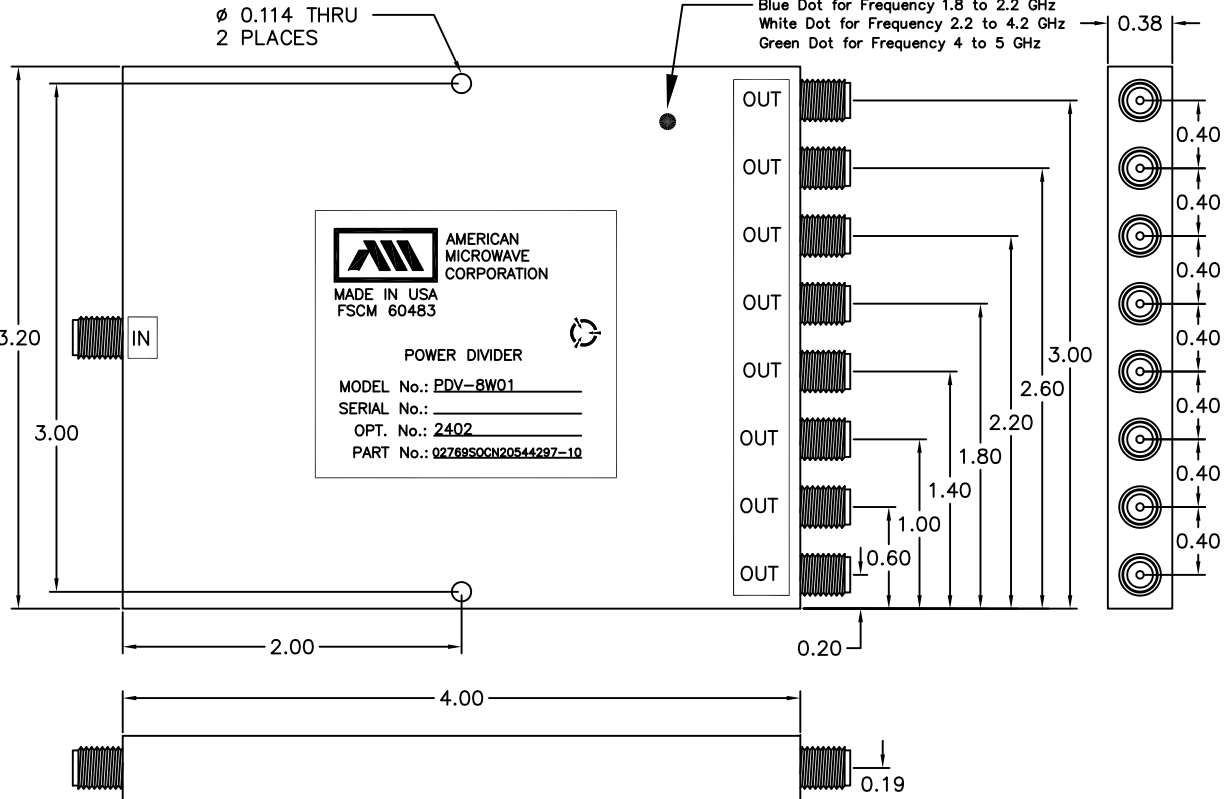
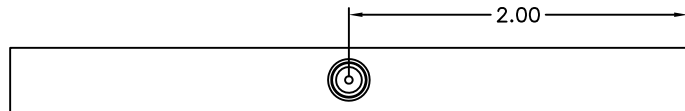


# DESCRIPTION

EIGHT WAY POWER DIVIDER.

# SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 4.2 GHz
- INSERTION LOSS: 1.0 dB MAX.
- AMPLITUDE IMBALANCE: 0.7 dB MAXIMUM
- INSERTION LOSS VARIANCE: 0.6 dB MAXIMUM
- ISOLATION: 16 dB MINIMUM
- PHASE IMBALANCE: 10° MAXIMUM
- VSWR: 1.5:1 MAXIMUM (COMMON)  
1.51 MAXIMUM (N PORT)
- POWER RATING: 1 WATT AT SUM PORT WHEN USED AS A POWER SPLITTER  
1 WATT AT EACH PORT WHEN USED AS A COMBINED COHERENT OR NON-COHERENT SIGNALS
- ELECTRICAL LENGTH MATCHING: ±2° MAXIMUM
- NOMINAL ELECTRICAL LENGTH: 1133°
- COMBINER TO COMBINER ISOLATION: 90 dB MINIMUM



**AMERICAN MICROWAVE CORPORATION**  
MADE IN USA  
FSCM 60483

**POWER DIVIDER**

MODEL No.: PDV-8W01  
SERIAL No.:  
OPT. No.: 2402  
PART No.: 02769SOCN20544297-10

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	8/1/21	RRA

# 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**: 42.6 MILLION HOURS

- 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 OF THE TWO COMBINERS WITH MINIMUM PHYSICAL SEPARATION OF 0.25 INCH.

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 FREDERICK, MARYLAND			
ISO 9001:2015 CERTIFIED		TITLE PRODUCT FEATURE PDV-8W01 OPT.2402			
APPROVALS	DATE				
DRAWN RJW	11/19/18				
ENG. SK	8/1/21	SIZE A	FSCM NO. 60483	DWG NO. 100-8916	REV. C
QAE RRA	8/1/21	SCALE N:S		SHEET 1 OF 1	