

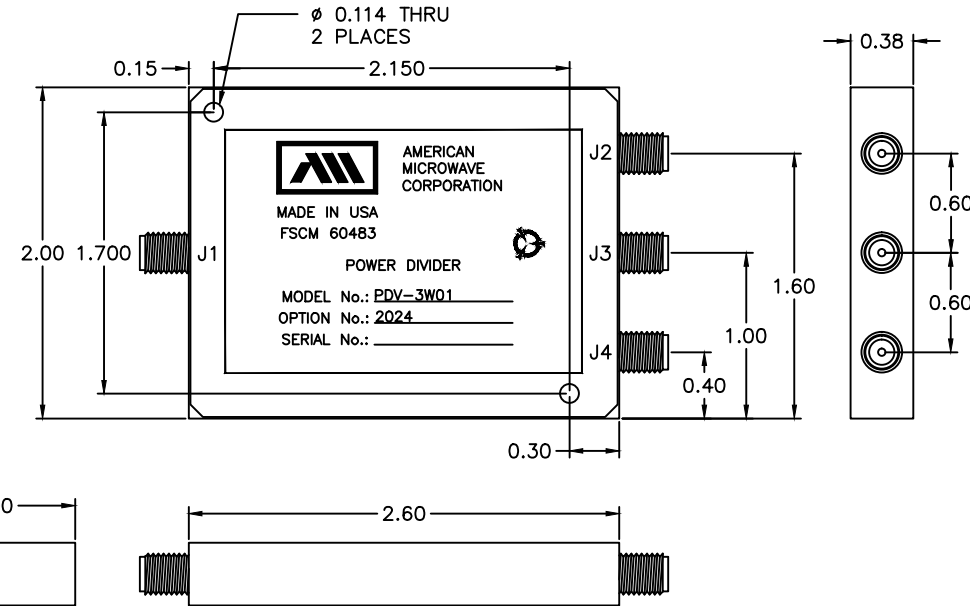
## DESCRIPTION

THREE WAY POWER DIVIDER.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	SEE ER# 021-20	4/21/20	RRA

## SPECIFICATIONS

- FREQUENCY RANGE: 2.2 TO 4.0 GHz
- VSWR: 1.3:1 MAXIMUM (COMMON)  
1.3:1 MAXIMUM (OUTPUT)
- INSERTION LOSS: 0.6 dB MAXIMUM, 0.1 dB MINIMUM
- PORT TO PORT ISOLATION: 16 dB MINIMUM
- PHASE IMBALANCE: 5° MAXIMUM
- RMS PHASE IMBALANCE: 2.5°
- ELECTRICAL LENGTH MATCHING: ±2°
- AMPLITUDE IMBALANCE: 0.60 dB
- AVE. POWER LEVELS: 4 WATTS AT EACH PORT WHEN USED AS A NON-COHERENT OR COHERENT COMBINER
- COMBINER TO COMBINER ISOLATION: 90 dB MINIMUM OVER THE FREQUENCY RANGE OF 3.0 TO 5.0 GHz FOR ALL CONDITIONS DESCRIBED IN NOTE 3.



## ENVIRONMENTAL RATINGS


- **TEMPERATURE** 0°C TO +50°C (OPERATING)  
-65°C TO +125°C (STORAGE)  
-64°F TO +160°F (SURVIVAL TEMP)  
-64°F TO +160°F OVER 10 MINUTES (SURVIVAL TEMP SHOCK)
- **HUMIDITY** RH OF 20% TO 60% NON-CONDENSING (OPERATING)  
RH OF 10% TO 100% (SURVIVAL)
- **ALTITUDE** 13.7 TO 15.7 PSI (OPERATING ATMOSPHERIC PRESSURE)  
WITHSTAND EXPOSURE TO ATMOSPHERIC PRESSURE ASSOCIATED WITH ALTITUDES UP TO 15,000 FT ABOVE SEA LEVEL.  
(SURVIVAL ATMOSPHERIC PRESSURE)
- **RELIABILITY** 42.7 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°

### 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.

		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND			
		ISO 9001:2015 CERTIFIED TITLE: PRODUCT FEATURE PDV-3W01 OPT. 2024			
APPROVALS	DATE	SIZE	FSCM NO.	DWG NO.	REV.
DRAWN RJW	11/19/18	A	60483	100-8913-32	A
ENG. RRA	4/21/20				
QAE RRA	4/21/20	SCALE N:S		SHEET 1 OF 1	