

## DESCRIPTION

PMI MODEL PVA-500M18G-60-SFF-OPT2G IS A VARIABLE ATTENUATOR/MODULATOR DESIGNED TO OPERATE OVER THE 0.5 TO 2.0 GHz FREQUENCY RANGE WITH A RISE AND FALL TIME OF 3  $\mu$ s MAXIMUM AND A VSWR OF 2.2:1 MAXIMUM.

## SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 2.0 GHz
- INSERTION LOSS: 2.5 dB MAXIMUM
- ATTENUATION FLATNESS: 0-30 dB  $\pm$ 1.0 dB MAXIMUM  
30-40 dB  $\pm$ 1.5 dB MAXIMUM  
40-50 dB  $\pm$ 2.5 dB MAXIMUM  
50-60 dB  $\pm$ 3.5 dB MAXIMUM
- ATTENUATION ACCURACY: 0-10 dB =  $\pm$  1.0 dB MAXIMUM  
10-20 dB =  $\pm$  1.5 dB MAXIMUM  
20-40 dB =  $\pm$  2.0 dB MAXIMUM  
40-60 dB =  $\pm$  2.5 dB MAXIMUM
- RISE AND FALL TIME: 3  $\mu$ s MAXIMUM
- VSWR: 2.2:1 MAXIMUM
- RF POWER RATINGS:  
OPERATING: +20 dBm CW MAXIMUM  
+10 dBm (0.3 GHz OR BELOW)  
SURVIVAL: +30 dBm CW MAXIMUM  
+27 dBm (0.3 GHz OR BELOW)
- CONTROL: 10 dB/VOLT ANALOG CONTROLLED
- POWER SUPPLY: +12 VDC @ 250 mA MAXIMUM, 210 mA TYPICAL  
-12 VDC @ 50 mA MAXIMUM, 30 mA TYPICAL
- CONNECTORS:  
RF INPUT/OUTPUT: SMA FEMALE
- POWER AND CONTROLS: SOLDER PIN CONTROL
- SIZE: 2.00" x 1.81" x 0.50"

## ENVIRONMENTAL RATINGS

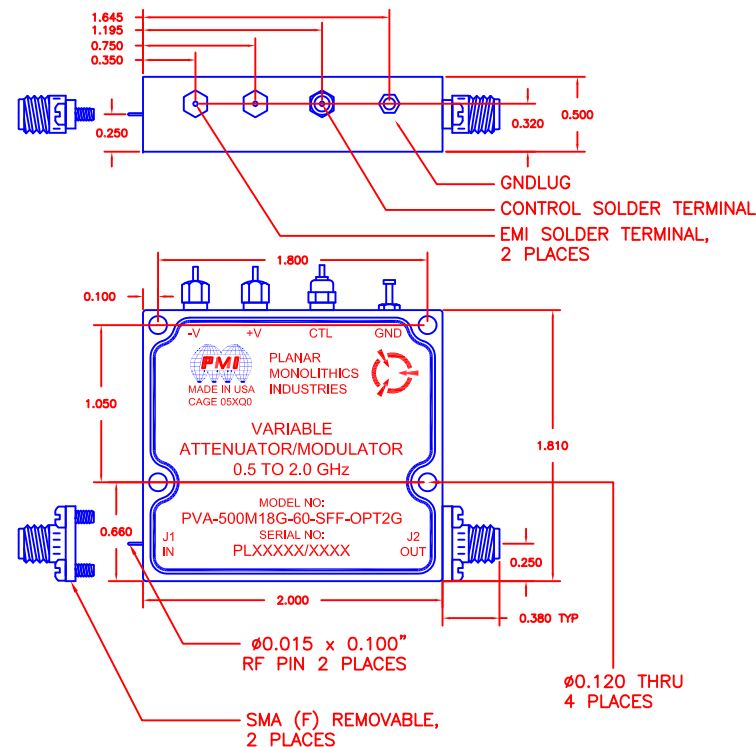
- TEMPERATURE: -55°C TO +95°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX  $\pm$ 0.020  
X.XXX  $\pm$ 0.010

| REVISIONS |      |             |        |          |
|-----------|------|-------------|--------|----------|
| ZONE      | REV. | DESCRIPTION | DATE   | APPROVED |
|           | —    | PRELIMINARY | 6/6/16 |          |
|           |      |             |        |          |
|           |      |             |        |          |

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



| APPROVALS        |  | DATE           |  | TITLE                    |  |
|------------------|--|----------------|--|--------------------------|--|
| DRAWN <i>EMF</i> |  | 6/6/16         |  | PRODUCT FEATURE          |  |
| CHECKED          |  |                |  | PVA-500M18G-60-SFF-OPT2G |  |
| ISSUED           |  |                |  | PRELIMINARY              |  |
| SIZE A           |  | FSCM NO. 05XQ0 |  | DWG NO.                  |  |
| SCALE N:S        |  |                |  | SHEET 1 OF 1             |  |