

DESCRIPTION

PMI MODEL PVA-500M18G-60-SFF IS A BROAD BAND VARIABLE ATTENUATOR/MODULATOR DESIGNED TO OPERATE OVER THE FULL 0.5 TO 18 GHz FREQUENCY RANGE WITH A RISE AND FALL TIME OF 3 μ s MAXIMUM AND A VSWR OF 2.2:1 MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 18 GHz
- INSERTION LOSS (0.5 TO 12 GHz): 4.5 dB MAXIMUM
- INSERTION LOSS (12 TO 18 GHz): 5.2 dB MAXIMUM
- ATTENUATION FLATNESS: 0-30 dB $\pm$ 2.5 dB MAXIMUM
30-40 dB $\pm$ 3.5 dB MAXIMUM
40-50 dB $\pm$ 4.5 dB MAXIMUM
50-60 dB $\pm$ 5.5 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 μ 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"
- FINISH: PAINTED BLUE

ENVIRONMENTAL RATINGS

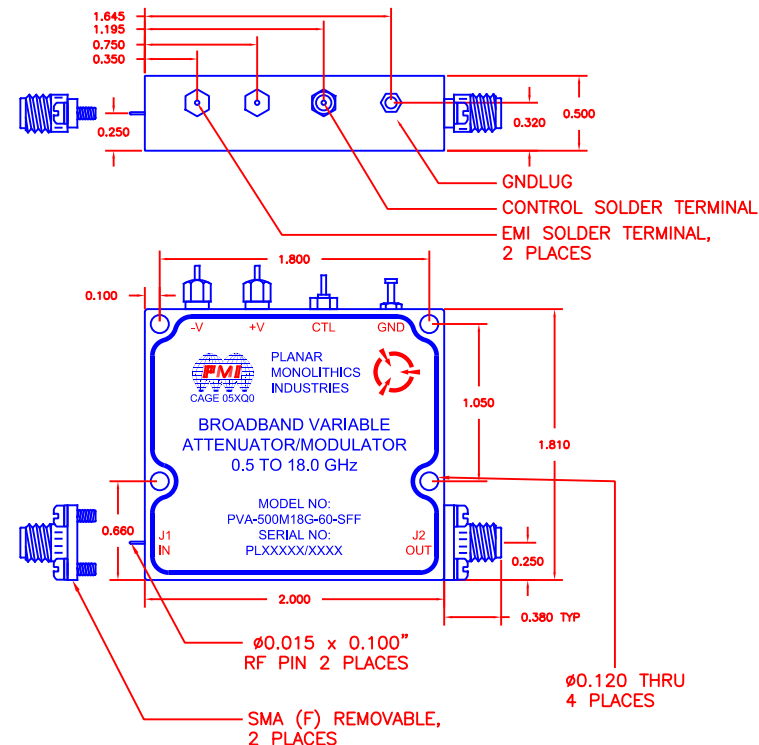
- TEMPERATURE: -55°C TO +95°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. 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
	2	SPECIFICATION UPDATES	2/3/15	
	A2	ECN # 17-0111	05/27/17	
	A3	ECN # 23-0147	08/08/23	
	A4	ECN # 25-0023	01/27/25	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE		
DRAWN		09/04/19		PRODUCT FEATURE		
CHECKED				PVA-500M18G-60-SFF		
ISSUED				SIZE	FSCM NO.	REV.
				A	05XQ0	A4
				DWG NO.		
				27022542		
				SCALE	N:S	SHEET
						1 OF 1