PAGE 04 AMCPMI 3016522999 08/09/2000 10:11

DESCRIPTION

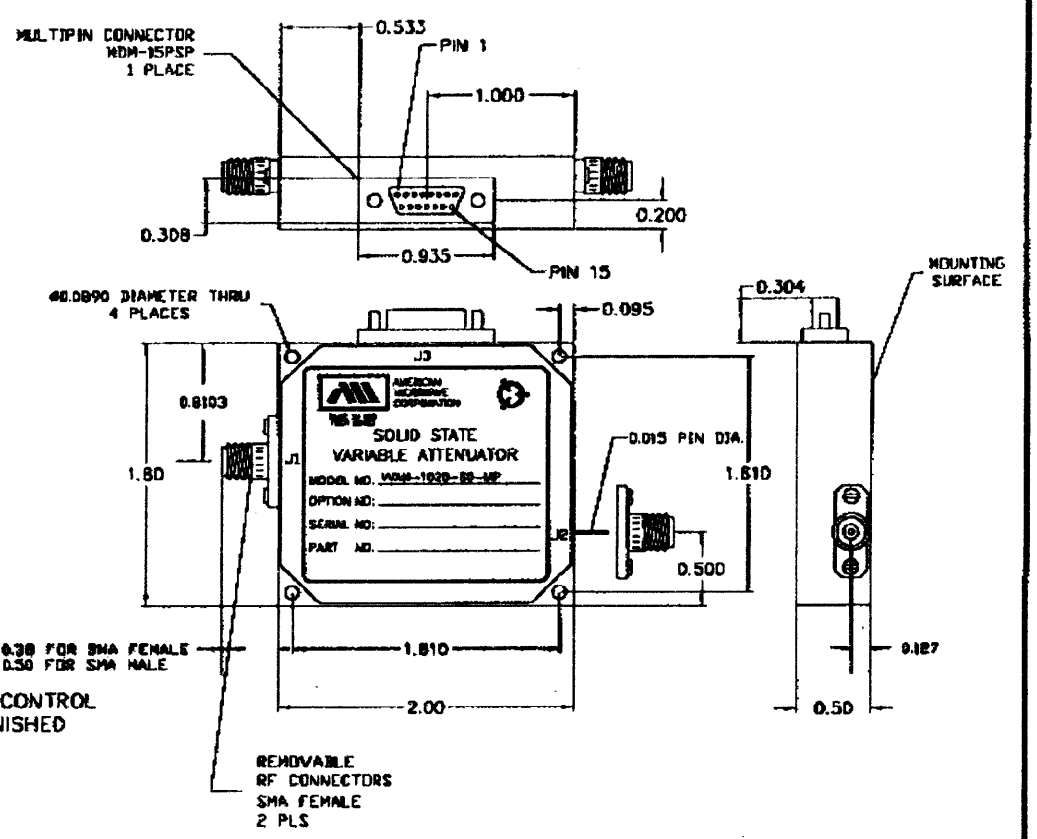
AMC MODEL VVAN-1020-60-MP IS AN OCTAVE BAND VOLTAGE CONTROLLED ATTENUATOR/MODULATOR, WITH 60dB DYNAMIC RANGE.

SPECIFICATIONS

- FREQUENCY RANGE- - - - - - - - - - -1214 MHz TO 1614 MHz
- INSERTION LOSS- - - - - - - - - - - -2 dB MAXIMUM
- ATTENUATION FLATNESS- - - - - - - -0–10 dB ±0.45 dB MAXIMUM
  10–20 dB ±0.8 dB MAXIMUM
  20–40 dB ±1.5 dB MAXIMUM
  40–60 dB ±1.6 dB MAXIMUM
- ATTENUATION LINEARITY- - - - - - - -0–30 dB ±0.5 dB MAXIMUM
  30–50 dB ±1.0 dB MAXIMUM
  50–60 dB ±1.5 dB MAXIMUM
- SWITCHING TIME- - - - - - - - - - - -500 nsec MAXIMUM
- TEMPERATURE COEFFICIENT- - - - - -±0.025 dB/°C
- VSWR (ON/OFF)- - - - - - - - - - - -2.0:1 MAXIMUM
- POWER RATINGS
  OPERATING- - - - - - - - - - - - - -+20 dBm MAXIMUM
  SURVIVAL- - - - - - - - - - - - - - -+30 dBm MAXIMUM
- CONTROL- - - - - - - - - - - - - - - -10 dB/VOLT
  ANALOG TRANSFER FUNCTION
- POWER SUPPLY - - - - - - - - - - - -+15 VDC @ +125 mA MAXIMUM
  −15 VDC @ −50 mA MAXIMUM
- CONNECTORS
  RF INPUT/OUTPUT- - - - - - - - - -FIELD REPLACEABLE SMA (FEMALE)
  POWER AND CONTROLS- - - - - - -15-PIN MULTIPIN FOR POWER AND CONTROL
  MATING CONNECTOR (FEMALE) FURNISHED
  ITT CANNON MDM-15PSP
- SIZE- - - - - - - - - - - - - - - - - -1.80" (L) x 2.00" (W) x 0.50" (H)
- WEIGHT- - - - - - - - - - - - - - - - -4.0 OUNCES TYPICAL

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	ORIGINAL JOB # 006139	01/26/00	

MECHANICAL OUTLINE



CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- **TEMPERATURE**- - - - - - -−55°C TO +85°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

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.010
X.XXX ±0.005

PART NO.		
APPROVALS		DATE
DRAWN	WSL?	01/26/00
CHECKED		
ISSUED		

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

TITLE
PRODUCT FEATURE
VVAN-1020-60-MP
SPECIAL FOR NASA
1-2 GHz, VOLTAGE CONTROLLED VARIABLE ATTENUATOR

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100-5598-2	–

SCALE N:S SHEET 1 of 3