

# DESCRIPTION

AMC MODEL MDVAN-4080E-60-8 OPTIONS 5, 36, GPO IS AN OCTAVE BAND DIGITALLY CONTROLLED ATTENUATOR/MODULATOR, WITH GPO CONNECTORS AND 60dB DYNAMIC RANGE.

# SPECIFICATIONS

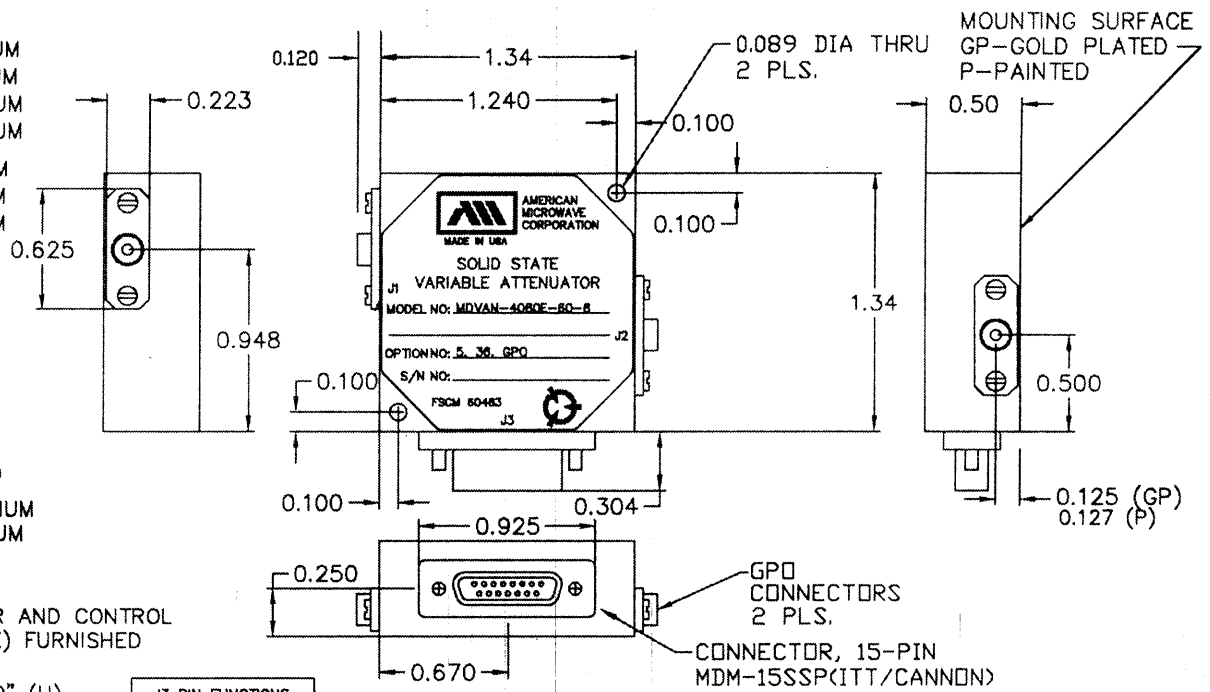
- FREQUENCY RANGE- . . . . . 3-6 GHz
- INSERTION LOSS- . . . . . -2 dB MAXIMUM
- ATTENUATION FLATNESS- . . . . . 0-10 dB ±0.75 dB MAXIMUM  
   10-20 dB ±1.50 dB MAXIMUM  
   20-40 dB ±3.00 dB MAXIMUM  
   40-60 dB ±3.50 dB MAXIMUM
- ATTENUATION LINEARITY- . . . . . 0-30 dB ±0.5 dB MAXIMUM  
   30-50 dB ±1.0 dB MAXIMUM  
   50-60 dB ±1.5 dB MAXIMUM
- SWITCHING TIME- . . . . . -200 nsec TYPICAL
- TEMPERATURE COEFFICIENT- . . . . . ±0.025 dB/°C
- VSWR (ON/OFF)- . . . . . -2.0:1 MAXIMUM
- POWER RATINGS  
   OPERATING- . . . . . +20 dBm MAXIMUM  
   SURVIVAL- . . . . . +30 dBm MAXIMUM
- CONTROL- . . . . . -8 BIT DIGITALLY CONTROLLED
- POWER SUPPLY - . . . . . +15 VDC @ +150 mA MAXIMUM  
   -15 VDC @ -50 mA MAXIMUM
- CONNECTORS  
   RF INPUT/OUTPUT- . . . . . -GPO CONNECTORS  
   POWER AND CONTROLS- . . . . . -15-PIN MULTIPIN FOR POWER AND CONTROL  
   MATING CONNECTOR (FEMALE) FURNISHED  
   ITT CANNON MDM-15PSP
- SIZE- . . . . . -1.34" (L) x 1.34" (W) x 0.50" (H)
- WEIGHT- . . . . . -2.5 OUNCES TYPICAL

# 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL JOB # 009212	11/29/00	

# MECHANICAL OUTLINE



J3 PIN FUNCTIONS	
PIN	FUNCTIONS
1	N/C
2	N/C
3	N/C
4	GND
5	0.25dB (LSB)
6	0.5dB
7	1dB
8	2dB
9	4dB
10	8dB
11	16dB
12	32dB (MSB)
13	+15VDC
14	-15VDC
15	N/C

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

# CONFIDENTIAL AND PROPRIETARY

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
DRAWN	11/29/00	PRODUCT FEATURE	
CHECKED	11/29/00	MDVAN-4080E-60-8	
ISSUED	11/29/00	OPTIONS 5, 36, GPO	
SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100-5835	-
SCALE N:S		SHEET 1 of 3	