

## DESCRIPTION

AMC MODEL DVAN-2040-60-8 IS A 2.0 TO 4.0 GHz 8 BIT DIGITALLY VARIABLE ATTENUATOR HAVING AN INSERTION LOSS OF 2.0 dB MAXIMUM AND A VSWR OF 2.0:1 MAXIMUM.

## SPECIFICATIONS

- FREQUENCY RANGE: ..... 2.0 TO 4.0 GHz
- INSERTION LOSS: ..... 2.0 dB MAXIMUM
- VSWR: ..... 2.0:1 MAXIMUM
- FLATNESS: .....
  - ① 10 dB: ± 0.5 dB MAXIMUM
  - ② 20 dB: ± 1.0 dB MAXIMUM
  - ③ 40 dB: ± 1.5 dB MAXIMUM
  - ④ 60 dB: ± 1.6 dB MAXIMUM
- ACCURACY: .....
  - 0-30 dB: ± 0.5 dB MAXIMUM
  - >30-50 dB: ± 1.0 dB MAXIMUM
  - >50-60 dB: ± 1.5 dB MAXIMUM
- MONOTICITY: ..... GUARANTEED
- TEMPERATURE COEFFICIENT: ..... ±0.025 dB/°C
- SWITCHING SPEED: ..... 1 uSec MAXIMUM (SEE NOTE)
- RF POWER RATINGS: ..... +20 dBm (OPERATING), +30 dBm (SURVIVAL)
- CONTROL: ..... 8-BIT POSITIVE TRUE BINARY
- DC POWER SUPPLY: ..... +12V @ 150 mA MAXIMUM
- CONNECTORS: ..... REMOVABLE SMA FEMALE FOR RF  
15-PIN MULTIPIN FOR POWER AND CONTROL

### NOTE:

1. FOR 500ns SWITCHING SPEED, FLATNESS WILL INCREASE

### OPTIONS:

- GP = GOLD PLATED MOUNTING SURFACE
- 4 = 30dB DYNAMIC RANGE

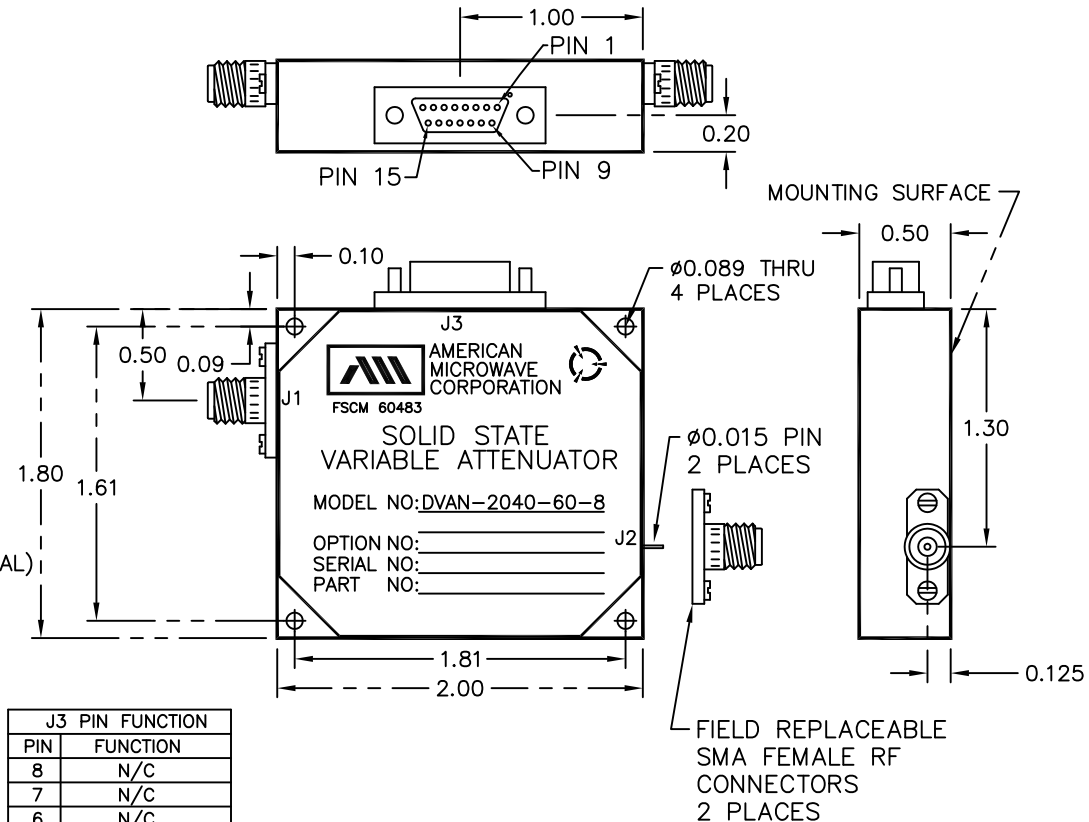
## ENVIRONMENTAL RATINGS

- **TEMPERATURE:** ..... -40°C TO +75°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: 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.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	6/3/09	
	B	SEE ECN# 10-009	3/1/10	RA
	C	SEE ECN# 12-007	2/9/12	RA
	D	SEE ECN# 12-008	2/27/12	RA



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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

## AMERICAN MICROWAVE CORPORATION

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	<i>K JPM</i>	6/3/09	PRODUCT FEATURE DVAN-2040-60-8 2.0 - 4.0 DIGITALLY VARIABLE ATTENUATOR		
ENG.	<i>K JPM</i>	6/3/09	SIZE	FSCM NO.	DWG NO.
QAE	<i>K JPM</i>	6/3/09	A	60483	100-7855
SCALE N:S			SHEET 1 OF 2		