

DESCRIPTION

AMC MODEL DVAN-5010-60-8 IS A 5.0 TO 10.0 GHz 8 BIT DIGITALLY VARIABLE ATTENUATOR HAVING AN INSERTION LOSS OF 2.7 dB MAXIMUM AND A VSWR OF 2.0:1 MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 5.0 TO 10.0 GHz
- INSERTION LOSS: 2.7 dB MAXIMUM
- VSWR: 2.0:1 MAXIMUM
- FLATNESS:
 - ① 10 dB: ± 0.6 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

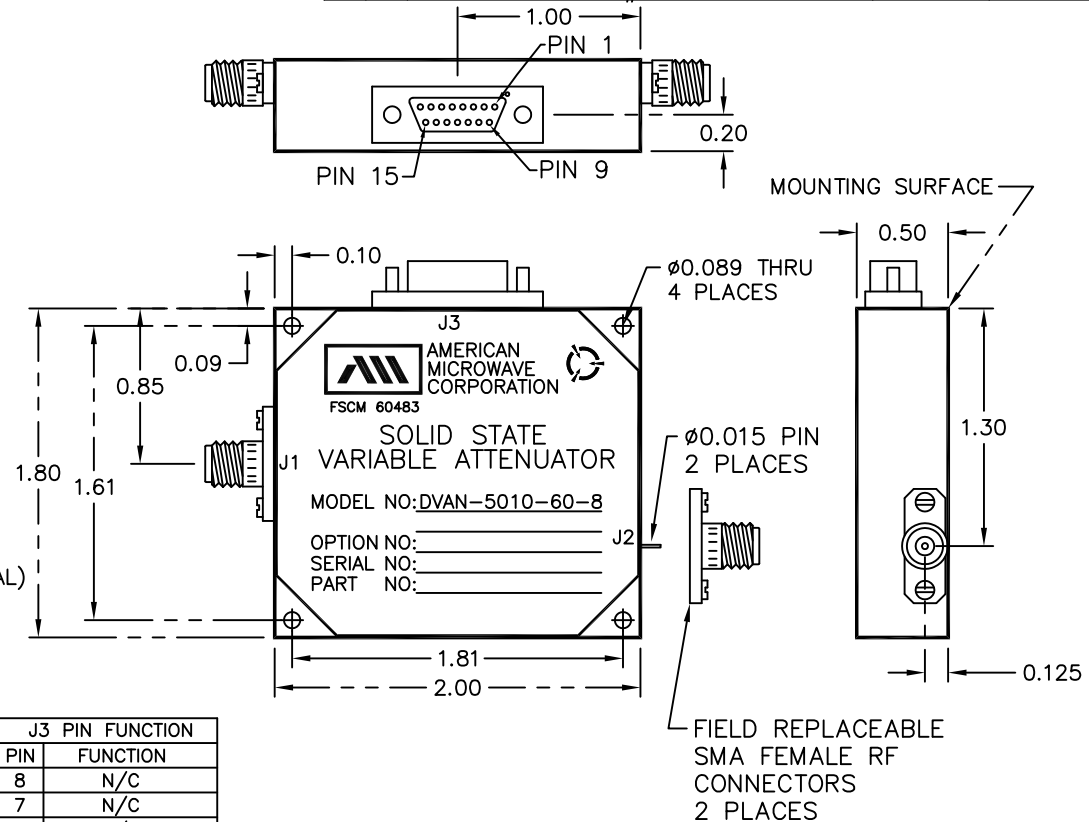
ENVIRONMENTAL RATINGS

- **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	6/9/09	
	B	SEE ECN# 10-009	3/1/10	Rd
	C	SEE ECN# 12-007	2/9/12	Rd
	D	SEE ECN# 12-008	2/24/12	Rd



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

7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.americammicrowavecorp.com
E-MAIL: sales@americammicrowavecorp.com
ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN	<i>K JPMMS</i>	6/9/09	PRODUCT FEATURE DVAN-5010-60-8 5.0 - 10.0 DIGITALLY VARIABLE ATTENUATOR			
ENG	<i>K JPMMS</i>	6/9/09	SIZE	FSCM NO.	DWG NO.	REV.
QAE	<i>K JPMMS</i>	6/9/09	A	60483	100-7858	D
SCALE N:S			SHEET 1 OF 2			