

DESCRIPTION

AMC MODEL DVAN-8018-60-8 IS A 8.0 TO 18.0 GHz 8 BIT DIGITALLY VARIABLE ATTENUATOR HAVING AN INSERTION LOSS OF 3.8 dB MAXIMUM AND A VSWR OF 2.0:1 MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE:8.0 TO 18.0 GHz
- INSERTION LOSS:2.7 dB TYPICAL TO 16GHz
3.7 dB MAXIMUM (16 TO 18GHz)
- VSWR:2.0:1 MAXIMUM
- FLATNESS:
 - ◎ 10 dB: ± 0.8 dB MAXIMUM
 - ◎ 20 dB: ± 1.1 dB MAXIMUM
 - ◎ 40 dB: ± 1.5 dB MAXIMUM
 - ◎ 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

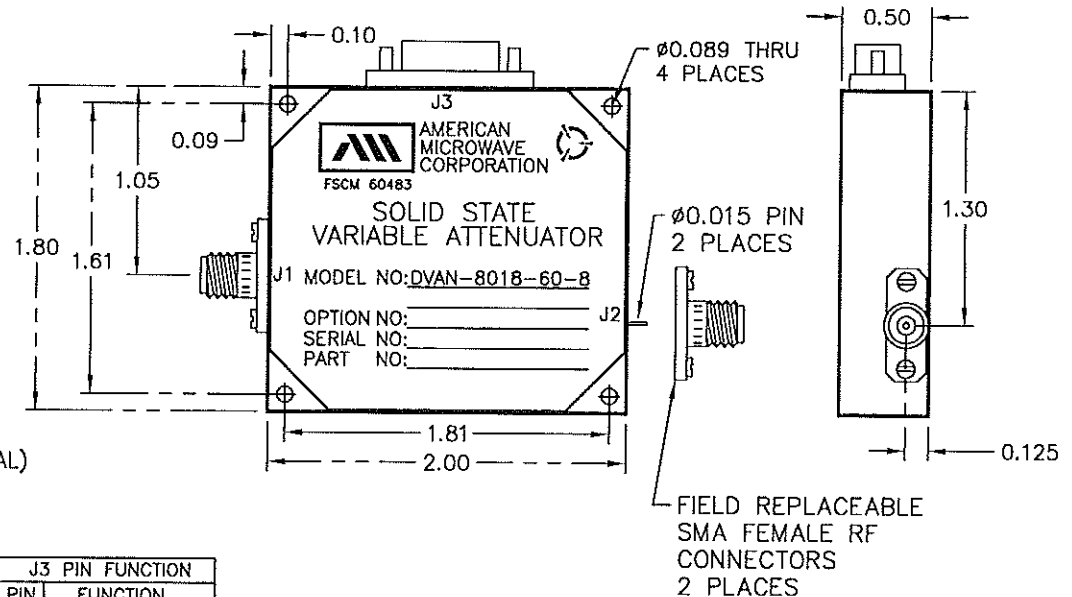
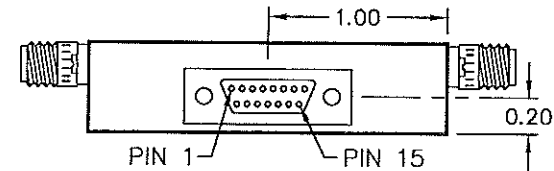
ENVIRONMENTAL RATINGS

- 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.

ZONE		REV.		DESCRIPTION		DATE	APPROVED
		A		ORIGINAL RELEASE		6/3/09	



J3 PIN FUNCTION	
PIN	FUNCTION
1	N/C
2	N/C
3	N/C
4	GND
5	0.25 dB (LSB)
6	0.5 dB
7	1 dB
8	2 dB
9	4 dB
10	8 dB
11	16 dB
12	32 dB (MSB)
13	+12V TO +15V
14	N/C
15	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.americamicrowavecorp.com
E-MAIL: sales@americamicrowavecorp.com
ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>K. J. JAMES</i>		6/3/09	PRODUCT FEATURE DVAN-8018-60-8 8.0 - 18.0 DIGITALLY VARIABLE ATTENUATOR		
CHECKED <i>PK</i>		6/10/09	SIZE A	FSCM NO. 60483	DWG NO. 100-7860
ISSUED			SCALE N:S		SHEET 1 OF 2
					REV. A