

DESCRIPTION:

AMC MODEL DVAN-2040-60-8, OPTION:34 IS A 3.0 TO 4.0 GHz, DIGITALLY VARIABLE PIN DIODE ATTENUATOR WITH REMOVABLE SMA CONNECTORS FOR SURFACE MOUNT CAPABILITY. IT IS CONTROLLED BY 8 BITS THROUGH A 15-PIN MULTIPIN CONNECTOR AND POWERED BY A ±12 VDC POWER SUPPLY.

SPECIFICATIONS:

- FREQUENCY: 3.0 - 4.0 GHz
- INSERTION LOSS: 2.0 dB MAX
- VSWR: 2.0:1 MAX
- FLATNESS
 - ⊙ 10 dB: ±0.45 dB
 - ⊙ 20 dB: ±0.8 dB
 - ⊙ 40 dB: ±1.5 dB
 - ⊙ 60 dB: ±1.6 dB
- DYNAMIC RANGE: 60 dB MIN
- DEVIATION FROM LINEARITY
 - 0 TO 30 dB: ±0.5 dB
 - 30 TO 50 dB: ±1.0 dB
 - 50 TO 60 dB: ±1.5 dB
- MONOTICITY: GUARANTEED
- SWITCHING SPEED: 500 ns MAX
- TEMPERATURE COEFFICIENT: ±0.025 dB/°C
- RF POWER RATINGS: +20 dBm OPERATING, +30 dBm SURVIVAL
- CONTROL: 8-BIT POSITIVE TRUE BINARY
- POWER SUPPLY: +12 VDC @ 150 mA MAX
 -12 VDC @ 75 mA MAX
- RF CONNECTORS: REMOVABLE SMA FEMALE
- POWER AND CONTROL CONNECTOR: 15-PIN MULTIPIN
- PHYSICAL DIMENSIONS: 2.0 x 1.80 x 0.5 in.
- WEIGHT: ≤4 oz.

OPTIONS

- 34 FREQUENCY RANGE 3-4 GHz

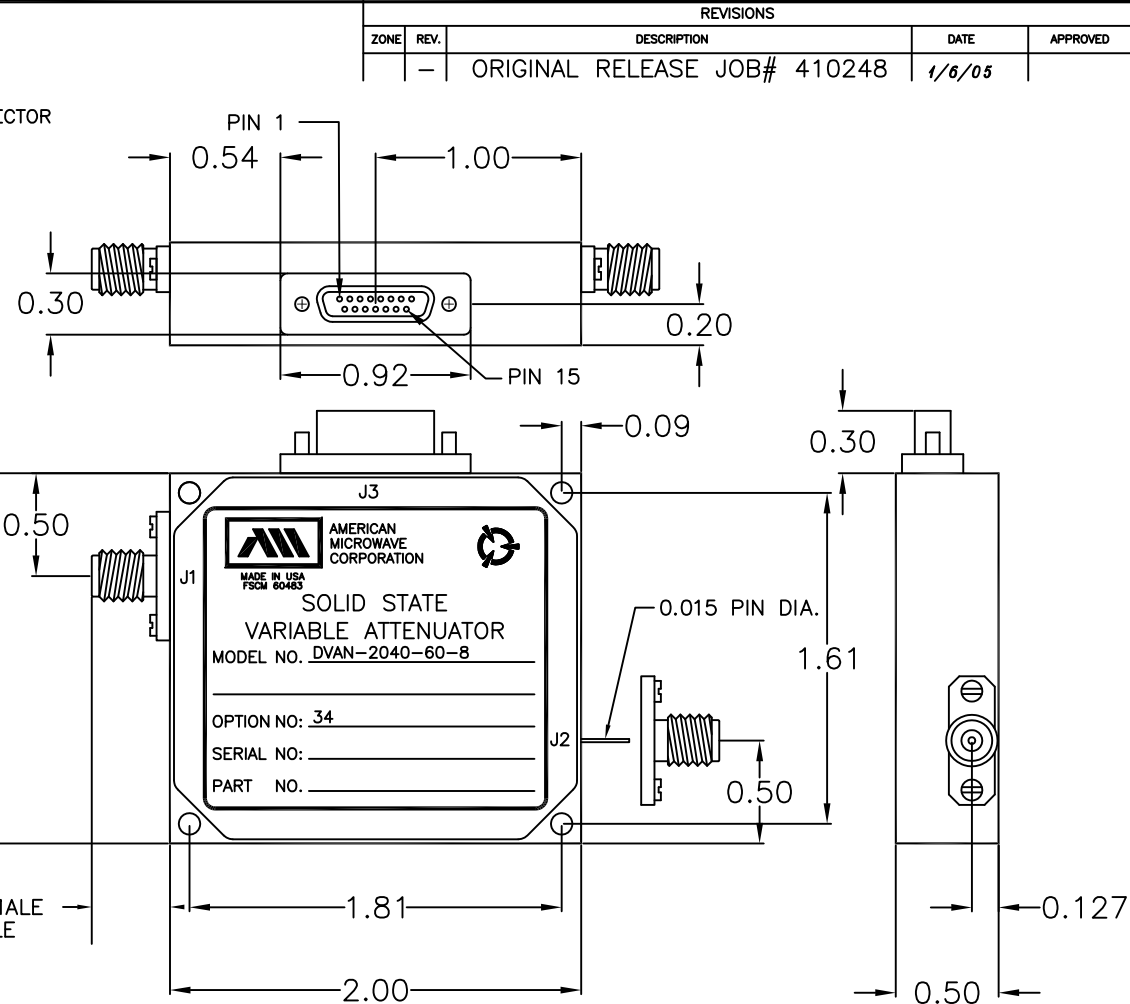
MULTIPIN PINOUT

- PIN 1 N/C
- PIN 2 N/C
- PIN 3 N/C
- PIN 4 GROUND
- PIN 5 0.25 dB (LSB)
- PIN 6 0.5 dB
- PIN 7 1.0 dB
- PIN 8 2.0 dB
- PIN 9 4.0 dB
- PIN 10 8.0 dB
- PIN 11 16.0 dB
- PIN 12 32.0 dB (MSB)
- PIN 13 +15 VDC
- PIN 14 -15 VDC
- PIN 15 N/C

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING)
 -65°C TO +125°C (STORAGE)
- HUMIDITY: IAW MIL-STD-202F, METHOD 103B CONDITION B
- SHOCK: IAW MIL-STD-202F, METHOD 312B CONDITION B
- VIBRATION: IAW MIL-STD-202F, METHOD 204D CONDITION B
- ALTITUDE: IAW MIL-STD-202F, METHOD 105C CONDITION B
- TEMPERATURE CYCLE: IAW MIL-STD-202F, METHOD 107D CONDITION A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	JOB# 410248	1/6/05

AMERICAN MICROWAVE CORPORATION

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



APPROVALS		DATE		TITLE			
DRAWN <i>JKM</i>		1/6/05		PRODUCT FEATURE DVAN-2040-60-8 OPTION: 34 3-4 GHz PIN DIODE ATTENUATOR			
REDRAWN	ISSUED	SIZE	FSCM NO.	DWG NO.	REV.		
		A	60483	100-7272	-		
SCALE N:S				SHEET 1 OF 3			

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