

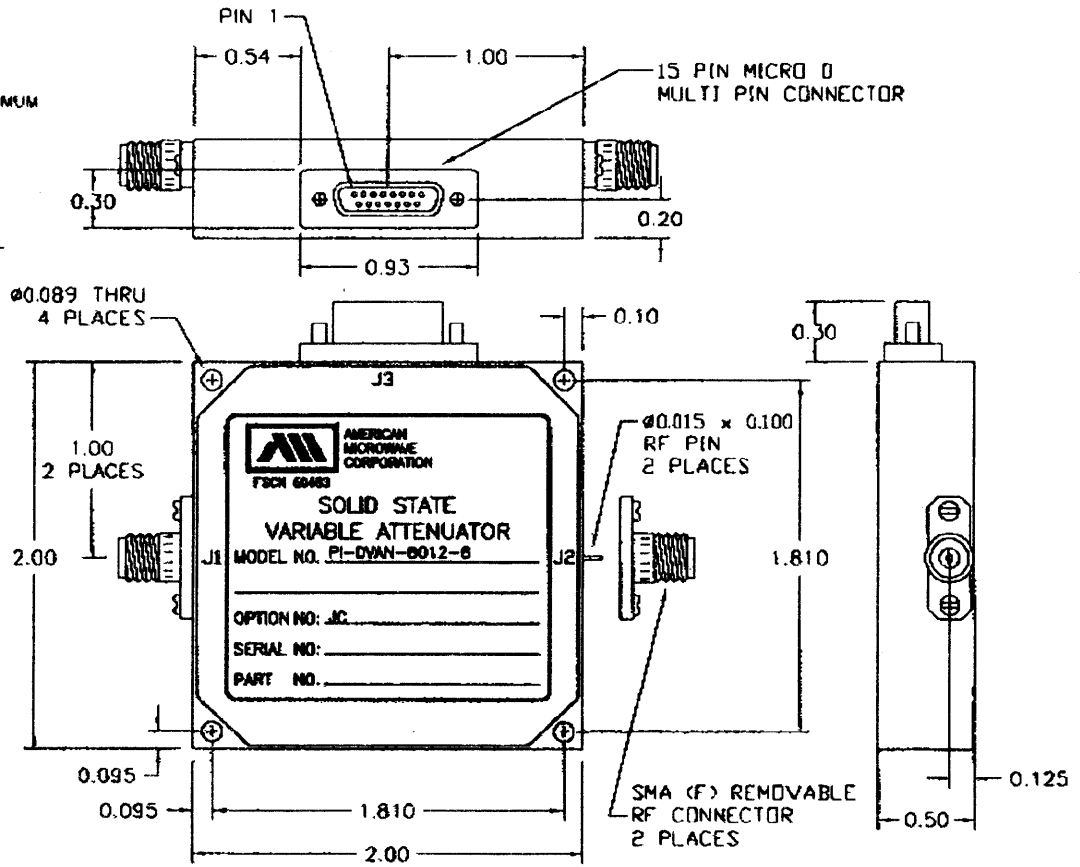
**DESCRIPTION:**

AMC MODEL PI-DVAN-8012-8 IS A HIGH SPEED, LOW INSERTION LOSS, PHASE INVARIANT, 0 TO 60 dB, 8 BIT DIGITAL VARIABLE, SOLID STATE, OCTAVE BAND ATTENUATOR THAT OPERATES OVER THE 8 GHz TO 12 GHz RANGE.

**SPECIFICATIONS:**

- FREQUENCY: ..... 8 GHz TO 12 GHz
- RANGE/RESOLUTION: ..... 60 dB / 0.25 dB
- INSERTION LOSS: ..... 4.0 dB TYPICAL, 3.80 dB GOAL, 4.5 dB MAXIMUM
- DIGITAL CONTROL: ..... 8 BIT TTL
- SWITCHING SPEED: ..... 300 ns MAXIMUM
- MAXIMUM POWER: ..... +27 dBm, (OPERATING + 10 dBm) (NO DAMAGE)
- OTG: ..... -36 dBm MINIMUM
- BIAS VOLTAGE: ..... +12V @ 200 mA MAXIMUM, 150 mA TYPICAL  
 ..... -5V @ 100 mA MAXIMUM, 75 mA TYPICAL
- PHASE VARIATION/SHIFT:
  - 0 TO 20 dB ..... ±5' (GOAL ±4')
  - 20 TO 40 dB ..... ±10' (GOAL ±8')
  - 40 TO 60 dB ..... ±20' (GOAL ±15')
- TEMPERATURE: ..... 0°C TO 70°C
- RF CONNECTORS: ..... SMA FEMALE
- BIAS VOLTAGE AND CONTROL: ..... 15 PIN MULTIPIN CONNECTOR
- SIZE: ..... 2.00 (L) x 2.00 (W) x 0.50 (H)
- WEIGHT: ..... ≤ 4 OUNCES

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	02/18/00	



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

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: ..... 0°C TO +70°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

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:  
 X.XX ±0.020  
 X.XXX ±0.010

**CONFIDENTIAL AND PROPRIETARY**

CONTRACT NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
ORIGIN <i>WYP</i>	0/28/00	PRODUCT FEATURE PI-DVAN-8012-8	
CHECKED <i>AK</i>	10/3/00	SOLID STATE PHASE INVARIANT ATTENUATOR	
ISSUE		SIZE FSCM NO.	DWG NO.
		A 60483	100-5736
		SCALE N/S	SHEET 1 of 3

10/03/2000 11:06 301624938 AMCPM1 PAGE 04