


MECHANICAL OUTLINE

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

X.XX ±0.020

X.XXX ±0.010

 AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND			
TITLE PRODUCT FEATURE VVAN-8018-60-SMA VOLTAGE VARIABLE ATTENUATOR			
SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100-3723-10	-
SCALE			SHEET 2 OF 2

SPECIFICATIONS

- FREQUENCY RANGE..... 8–18GHz
- INSERTION LOSS..... 2.7dB TO 16GHz
3.7dB FROM 16 TO 18GHz
- ATTENUATION FLATNESS..... 10 dB \pm 0.8 dB MAXIMUM
20 dB \pm 1.1 dB MAXIMUM
40 dB \pm 1.5 dB MAXIMUM
60 dB \pm 1.6 dB MAXIMUM
- ATTENUATION ACCURACY..... 0–30 dB \pm 0.5 dB MAXIMUM
(DEVIATION FROM
NOMINAL ATTENUATION) 30–50 dB \pm 1.0 dB MAXIMUM
50–60 dB \pm 1.5 dB MAXIMUM
- MONOTONICITY..... GUARANTEED
- TEMPERATURE COEFFICIENT..... \pm 0.025 dB/ $^{\circ}$ C MAXIMUM
- SWITCHING TIME..... 500 nS MAXIMUM
- VSWR (ALL ATTENUATION LEVELS)..... 2.0:1 MAXIMUM
- POWER RATINGS..... +20 dBm OPERATING
+30 dBm SURVIVAL
- CONTROL..... 10dB/VOLT ANALOG TRANSFER FUNCTION
- POWER SUPPLY..... +12VDC \pm 5% @ 125 mA MAXIMUM
–12VDC \pm 5% @ 50 mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUT..... REMOVABLE SMA FEMALE
POWER..... SOLDER PIN
CONTROL..... SMA
- SIZE..... 2.0" x 1.8" x 0.50"
- WEIGHT..... 4.0 oz.

ENVIRONMENTAL RATINGS:

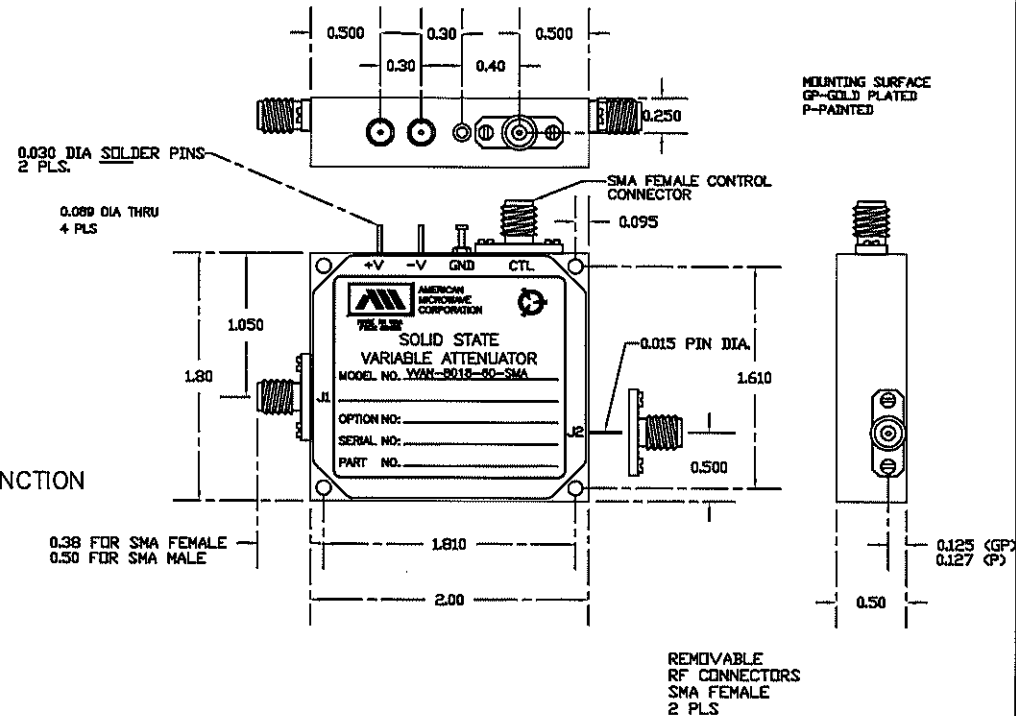
- TEMPERATURE:..... –55 $^{\circ}$ C TO +85 $^{\circ}$ C (OPERATING)
–65 $^{\circ}$ C TO +125 $^{\circ}$ C (STORAGE)
- HUMIDITY:..... MIL–STD–202F, METHOD 103B COND. B
- SHOCK:..... MIL–STD–202F, METHOD 213B COND. B
- VIBRATION:..... MIL–STD–202F, METHOD 204D COND. B
- ALTITUDE:..... MIL–STD–202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL–STD–202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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TOLERANCES:

X.XX \pm 0.020
X.XXX \pm 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	ORIGINAL RELEASE	1/16/99	



CONTRACT NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN <i>WYP</i>	01/16/99	PRODUCT FEATURE VVAN-8018-60-SMA VOLTAGE VARIABLE ATTENUATOR		
CHECKED <i>RA</i>	1/20/99	SIZE	FSCHM NO.	DWG NO.
ISSUED		A	60483	100-3723-10
		SCALE	SHEET 1 of 1	