

DESCRIPTION:

AMC MODEL AGH-8018-60DD-SF-3488 IS A 8 TO 18 GHz, 8 BIT DIGITAL ATTENUATOR THAT IS HERMETICALLY SEALED IN A MINIATURE PACKAGE.

SPECIFICATIONS:

- FREQUENCY RANGE: 8.0 - 18.0 GHz
- INSERTION LOSS: 3.0 dB MAXIMUM
- VSWR: 1.8:1 MAXIMUM
- ATTENUATION FLATNESS:
 - 10 dB ... 0.7
 - 20 dB ... 1.0
 - 40 dB ... 1.5
 - 60 dB ... 1.6
- ATTENUATION ACCURACY:
 - 0-30 dB ± 0.5 dB
 - 30-50 dB ± 1.0 dB
 - 50-60 dB ± 1.5 dB
- TEMPERATURE COEFFICIENT: ±0.02 dB/°C
- MONOTONICITY: GUARANTEED
- SWITCHING TIME: 500 nS MAXIMUM
- RF POWER RATINGS: +20 dBm CW OR PEAK
- CONTROL: 8 BIT TRUE BINARY LOGIC, 0.25 dB MINIMUM ATTENUATION STEP
- POWER SUPPLY: +12V TO +15 VDC @ 120 mA MAXIMUM
-12V TO -15 VDC @ 50 mA MAXIMUM
- CONNECTORS:
 - RF INPUT/OUTPUT: FIELD REPLACEABLE SMA (FEMALE)
 - POWER & CONTROLS: MINIATURE 14 PIN MALE (MIL-C-28748) MATING CONNECTOR (FEMALE) FURNISHED
- ANALOG INPUT CHARACTERISTICS:
 - RANGE: 0 TO 6V
 - TRANSFER FUNCTION: 10 dB/V
- SIZE: 1.34" x 1.34" x 0.50"

| J3 POWER/LOGIC CONNECTIONS | |
|----------------------------|---------------------|
| PIN | FUNCTIONS |
| A | DIGITAL/POWER (GND) |
| B | GND |
| C | -12V TO -15V |
| D | 0.25 dB (LSB) |
| E | 0.5 dB |
| F | 1 dB |
| H | 4 dB |
| J | 2 dB |
| K | 16 dB |
| L | 32 dB |
| M | +12V TO +15V |
| N | 8 dB |
| P | GND |
| R | ANALOG INPUT |

NOTES:

1. ALL UNUSED LOGIC INPUTS MUST BE GROUNDED.
2. FOR 3488H: EXCEPT FROM 12-16 GHz WHERE INSERTION LOSS IS 3.5 dB MAX. AND FROM 16-18 GHz WHERE INSERTION LOSS IS 4.0 dB MAX AND VSWR IS 2.0:1 MAX.

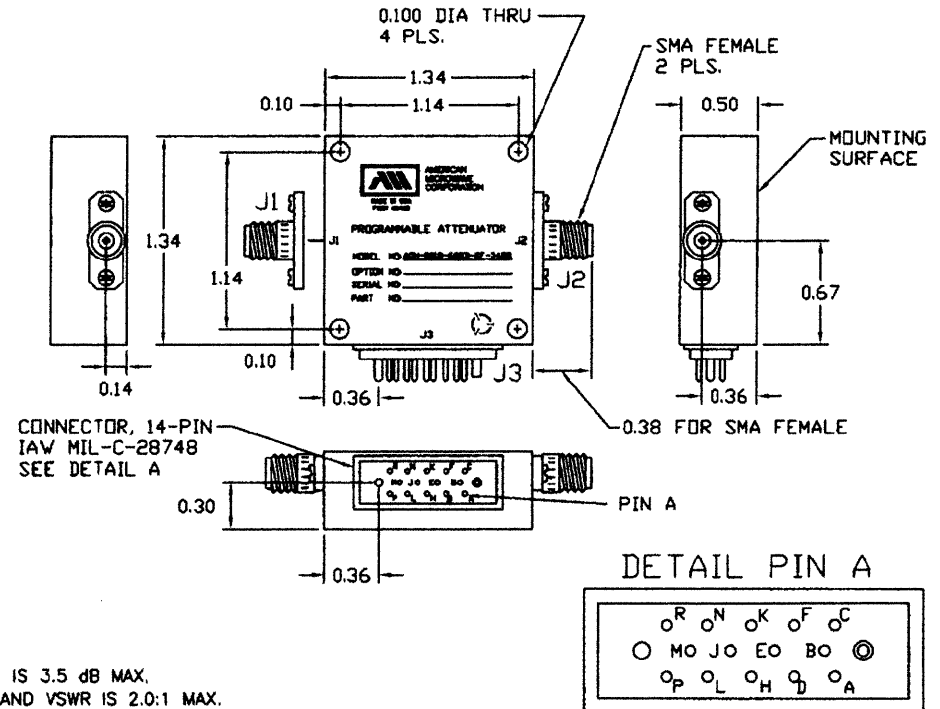
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +110°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B CONDITON B
- SHOCK: MIL-STD-202F, METHOD 213B CONDITON B
- VIBRATION: MIL-STD-202F, METHOD 204D CONDITON B
- ALTITUDE: MIL-STD-202F, METHOD 105C CONDITON B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D CONDITON A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

| REVISIONS | | | | |
|-----------|------|---------------------------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| - | | ORIGINAL RELEASE JOB #209152E-2 | 12/17/02 | |

MECHANICAL OUTLINE:



ALL DIMENSIONS ARE IN INCHES [MM]
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

CONFIDENTIAL AND PROPRIETARY

| PART NO. | | AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND | |
|------------|----------|---|--------------|
| APPROVALS | DATE | TITLE | |
| <i>gdy</i> | 12/17/02 | PRODUCT FEATURE | |
| CHECKED | | AGH-8018-60DD-SF-3488 | |
| ISSUED | | DIGITALLY VARIABLE ATTENUATORS | |
| SIZE | FSCM NO. | DWG NO. | REV. |
| A | 60483 | 100-6475 | - |
| SCALE N/A | | | SHEET 1 of 3 |