

## DESCRIPTION:

AMC MODEL AGT-052-32DD-GA16TR IS A TEMPERATURE COMPENSATED OCTAVE BAND VARIABLE ATTENUATOR / MODULATOR, CONTROLLED BY 8 BIT BINARY LOGIC AND OPTIMIZED FOR 0.5 TO 2.0 GHz OPERATION.

## SPECIFICATIONS:

- FREQUENCY RANGE: 0.5 – 2.0 GHz
- INSERTION LOSS: 3.2 dB MAXIMUM
- VSWR: 2.0:1 MAXIMUM
- ATTENUATION DYNAMIC RANGE: 32 dB
- ATTENUATION ACCURACY: 0-10 dB  $\pm 0.5$  dB  
>10-20 dB  $\pm 1.0$ dB  
>20-30 dB  $\pm 1.3$ dB
- FLATNESS: @ 10dB:  $\pm 1.5$ dB  
@ 20dB:  $\pm 3.0$ dB  
@ 40dB:  $\pm 4.5$ dB  
@ 60dB:  $\pm 7.0$ dB
- TEMPERATURE COEFFICIENT:  $\pm 0.02$  dB/ $^{\circ}$ C
- SWITCHING TIME: 10  $\mu$ S MAXIMUM
- RF POWER RATINGS: 10 mW CW OPERATING  
60 W PEAK OPERATING  
1 W CW SURVIVAL  
100 W PEAK SURVIVAL
- CONTROL: 8-BIT POSITIVE TRUE BINARY
- POWER SUPPLY: +15V DC @ +100mA MAXIMUM
- CONNECTORS:  
RF INPUT/OUTPUT: REMOVABLE SMA FEMALE  
POWER & CONTROLS: SUBMINIATURE 15 PIN MALE CONNECTOR  
MATING CONNECTOR FEMALE FURNISHED
- SIZE: 3.00" x 3.00" x 1.00"

## ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40 $^{\circ}$ 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: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

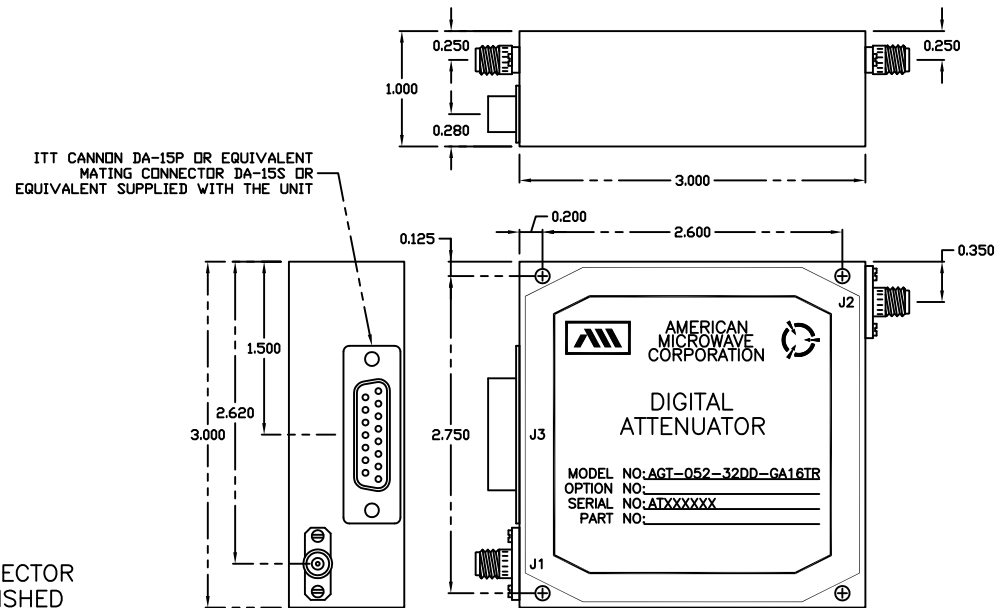
\* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.

## J3 PIN FUNCTION

PIN	FUNCTION
1	0.125dB(1LSB)
2	0.25dB
3	0.5dB
4	1.0dB
5	2.0dB
6	4.0dB
7	8.0dB
8	16DB(MSB)
9	N/C
10	N/C
11	N/C
12	N/C
13	+15V
14	N/C
15	GND


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB #212223E-2	03/27/03	
	A	SEE ECN# 13-005	1/24/13	RA

## MECHANICAL OUTLINE:



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

## CONFIDENTIAL AND PROPRIETARY

PART NO.		 AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
DRAWN <i>KAB</i>	03/27/03	PRODUCT FEATURE AGT-052-32DD-GA16TR DIGITALLY VARIABLE ATTENUATORS	
ENG <i>RA</i>	1/24/13	SIZE	FSCM NO.
QAE <i>K PPM</i>	1/24/13	A	60483
		DWG NO.	REV.
		100-6572	A
		SCALE N:S	SHEET 1 of 3