

## DESCRIPTION:

AMC MODEL AGT-052-64DD-GA17TR 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: 64 dB
- ATTENUATION ACCURACY: 0-10 dB  $\pm 0.5$  dB  
 >10-20 dB  $\pm 1.0$  dB  
 >20-30 dB  $\pm 1.3$  dB  
 >30-40 dB  $\pm 1.7$  dB  
 >40-60 dB  $\pm 2.4$  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 PAEK 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

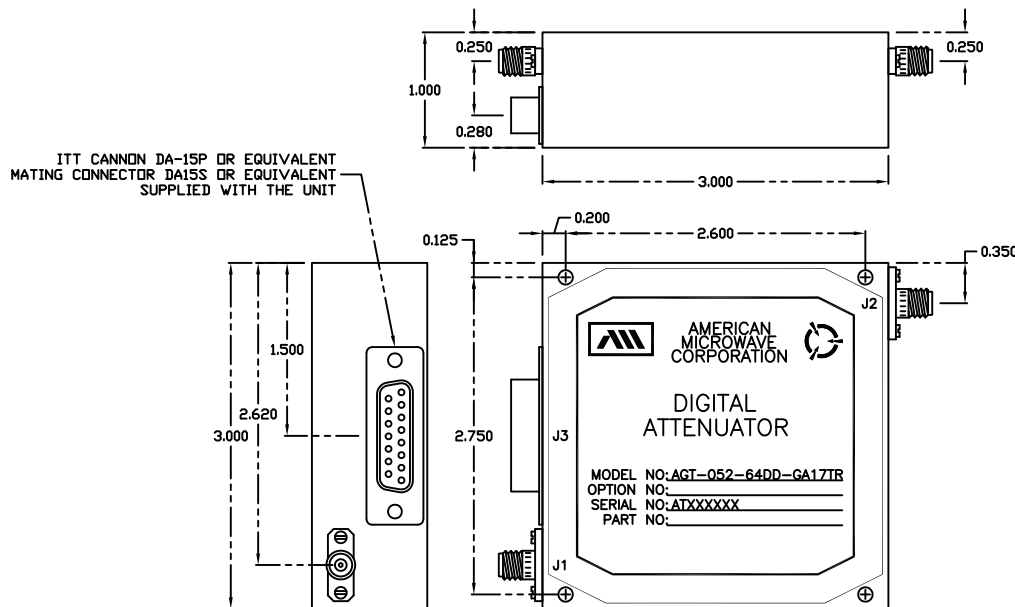
\* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.

## J3 PIN FUNCTION

PIN	FUNCTION
1	0.25dB(LSB)
2	0.5dB
3	1.0dB
4	2.0dB
5	4.0dB
6	8.0dB
7	16dB
8	32dB(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-3	03/27/03	RA
	A	ECR#07-106	08/15/07	
	B	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-052-64DD-GA17TR DIGITALLY VARIABLE ATTENUATORS	
ENG <i>RA</i>	1/24/13	SIZE	FSCM NO.
QAE <i>K JFMMS</i>	1/24/13	A	60483
		DWG NO.	REV.
		100-6573	B
SCALE N:S		SHEET 1 of 3	