

DESCRIPTION

AMC MODEL AGT-2000-70DD IS A BROAD BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 10 BIT POSITIVE TRUE BINARY LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE 10 MHz - 2.0 GHz MINIMUM
- INSERTION LOSS 2.5 dB MAXIMUM
- ATTENUATION FLATNESS (± dB MAXIMUM) 0-30 dB ±0.5 dB MAXIMUM
30-50 dB ±1.5 dB MAXIMUM
50-70 dB ±2.5 dB MAXIMUM
- ATTENUATION ACCURACY 0-10 dB ±2.0 dB MAXIMUM
10-20 dB ±1.0 dB MAXIMUM
20-50 dB ±1.5 dB MAXIMUM
50-70 dB ±2.0 dB MAXIMUM
- SWITCHING TIME ON: 25 µsec OFF: 10 µsec
- VSWR 2.0:1 MAXIMUM , 1.75 TYPICAL (@ 0dB ATTENUATION)
- RF POWER RATINGS
OPERATING +10 dBm CW MAXIMUM, +20dBm TYPICAL.
SURVIVAL +30 dBm CW MAXIMUM
- CONTROL 10 BIT TRUE BINARY LOGIC
- POWER SUPPLY +15VDC @ 250 mA MAXIMUM
-15VDC @ 50 mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUT SMA FEMALE
POWER AND CONTROLS 15 PIN D-SUBMINIATURE (MALE)
MATING CONNECTOR FURNISHED
- SIZE 2.00" x 1.81" x 0.88"

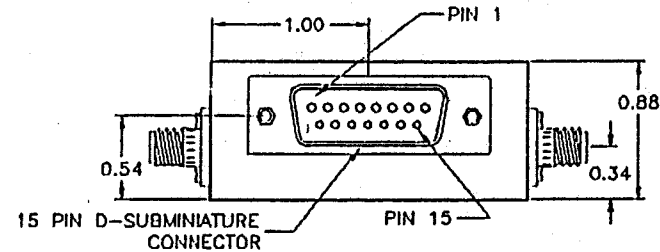
AVAILABLE OPTIONS

- A01 J1 SMA MALE, J2 SMA FEMALE
- A02 TWO SMA MALE RF CONNECTORS
- A03 8 BIT BINARY LOGIC
- A04 9 BIT BINARY LOGIC
- A05 11 BIT BINARY LOGIC
- A06 12 BIT BINARY LOGIC
- A07 EXTENDED BANDWIDTH, SLOW SPEED AND 60 dB ATTENUATION RANGE WITH DIGITAL CONTROL REFER TO DATA SHEET AGT-2018-60DD-100 (SLIM LINE). FOR ANALOG VOLTAGE CONTROLLED UNIT WITH SOLDER PINS REFER TO AGT-2018-60D-100 (SLIM LINE). (SPECIFY FREQUENCY)
218 2 GHz TO 18 GHz
219 2 GHz TO 19 GHz
200M18 200 MHz TO 18 GHz
300M18 300 MHz TO 18 GHz
10M18 10 MHz TO 18 GHz
- A08 ANALOG CONTROLLED UNIT - 10/dBVOLT PIN 2 IS USED AS CONTROL (OTHER CONTROL VOLTAGES AVAILABLE). FOR SOLDER PIN UNITS REFER TO AGT-2000-70D .
- A09 HIGH SPEED UNIT ≤ 1 µSEC, DIGITAL CONTROLLED, EXTENDED BANDWIDTH AND 60 dB ATTENUATION RANGE REFER TO DATA SHEET AGT-2018-60DD-100 (SLIM LINE) FOR ANALOG VOLTAGE CONTROLLED UNITS WITH SOLDER PINS REFER TO AGT-2018-60D-100 (SLIM LINE). (FREQUENCY RANGE OPTIONS)
218 2 GHz TO 18 GHz
219 2 GHz TO 19 GHz
300M18 300 MHz TO 18 GHz
200M18 200 MHz TO 18 GHz
- A10 MOUNTING SURFACE UNPAINTED
- SCS SPECIAL CUSTOMER SPECIFICATIONS

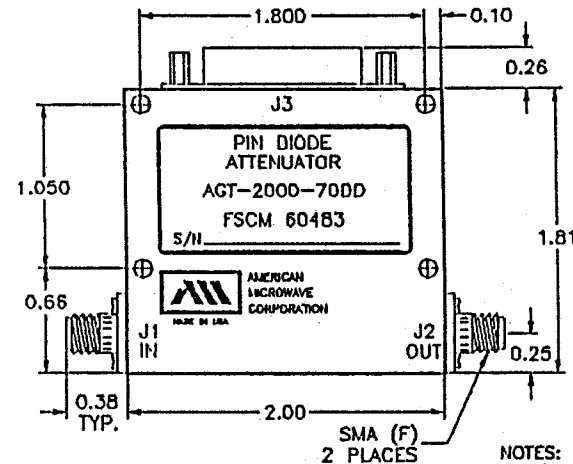
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 212313-1E	09/28/93	AKG

MECHANICAL OUTLINE



10 BIT TRUE BINARY LOGIC	
J3 PIN #	PIN FUNCTION
1	GND
2	N/C
3	0.1 dB (LSB)
4	0.2 dB
5	0.4 dB
6	0.8 dB
7	1.6 dB
8	3.2 dB
9	6.4 dB
10	12.8 dB
11	25.6 dB
12	51.2 dB (MSB)
13	+V
14	-V
15	N/C



8 BIT TRUE BINARY LOGIC	
J3 PIN NO.	FUNCTIONS.
1	GND
2	N/C
3	N/C
4	GND
5	0.25 dB (LSB)
6	0.5 dB
7	1.0 dB
8	2.0 dB
9	4.0 dB
10	8.0 dB
11	16.0 dB
12	32.0 dB
13	+V
14	-V
15	N/C

- NOTES:
 1) DIMENSIONS ARE IN INCHES
 2) TOLERANCES: X.XX ±0.020
X.XXX ±0.010
APPROX. 4.0 OZ
 3) WEIGHT:

ENVIRONMENTAL RATINGS

- TEMPERATURE -55°C TO +125°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

		APPROVALS	DATE
		DRAWN: WYP CHECKED: P. Malle	08/28/93 10/1/97

AMERICAN MICROWAVE CORPORATION
 7311G GROVE RD., FREDERICK, MD. 21701
 TEL: (301) 662-4700 FAX: (301) 662-4938

PRODUCT FEATURE		
AGT-2000-70DD		
10 MHz - 2 GHz, PROGRAMMABLE VARIABLE ATTENUATOR		
SIZE A	SHEET 1 OF 2	DWG. # 100-3127

AKG
 HW
 JW
 EK
 SK