

DESCRIPTION

AMC MODEL AGT-2018-60DD-100 IS A BROAD BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 8 BIT POSITIVE TRUE BINARY LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE 2.0-18.0 GHz MINIMUM
- INSERTION LOSS 4.5 dB MAXIMUM
- ATTENUATION FLATNESS
(± dB MAXIMUM) 0-30 dB ±1.0 dB MAXIMUM
30-40 dB ±2.0 dB MAXIMUM
40-50 dB ±3.0 dB MAXIMUM
50-60 dB ±5.5 dB MAXIMUM
- ATTENUATION ACCURACY 0-10 dB ±2.0 dB MAXIMUM
10-20 dB ±1.0 dB MAXIMUM
20-40 dB ±1.5 dB MAXIMUM
40-60 dB ±2.0 dB MAXIMUM
- RISE & FALL TIME 3 μsec MAXIMUM
- VSWR 2.2:1 MAXIMUM
- RF POWER RATINGS
OPERATING +20 dBm CW MAXIMUM
+10 dBm (0.3 GHz OR BELOW)
SURVIVAL +30 dBm CW MAXIMUM
+27 dBm (0.3 GHz OR BELOW)
- CONTROL 8 BIT TRUE BINARY LOGIC
- POWER SUPPLY +12VDC @ 250 mA MAXIMUM, 210 mA TYPICAL
-12VDC @ 50 mA MAXIMUM, 30 mA TYPICAL
- CONNECTORS
RF INPUT/OUTPUT SMA FEMALE
POWER AND CONTROLS 15 PIN MICRO-D SUBMINIATURE (MALE)
MATING CONNECTOR FURNISHED
- SIZE 2.00" x 1.81" x 0.50"

AVAILABLE OPTIONS

- A01 TWO SMA MALE RF CONNECTORS
- A02 J1 SMA MALE, J2 SMA FEMALE
- A03 BLIND MATE CONNECTORS
- A04 ANALOG CONTROLLED UNIT OF 10dB/VOLT. PIN 2 IS USED AS CONTROL (OTHER CONTROL VOLTAGES AVAILABLE). FOR SOLDER PIN UNITS REFER TO DATA SHEET AGTN-2018-60D-100.
- A05 ±15VDC POWER SUPPLY
- A06 0 TO 30 dB RANGE

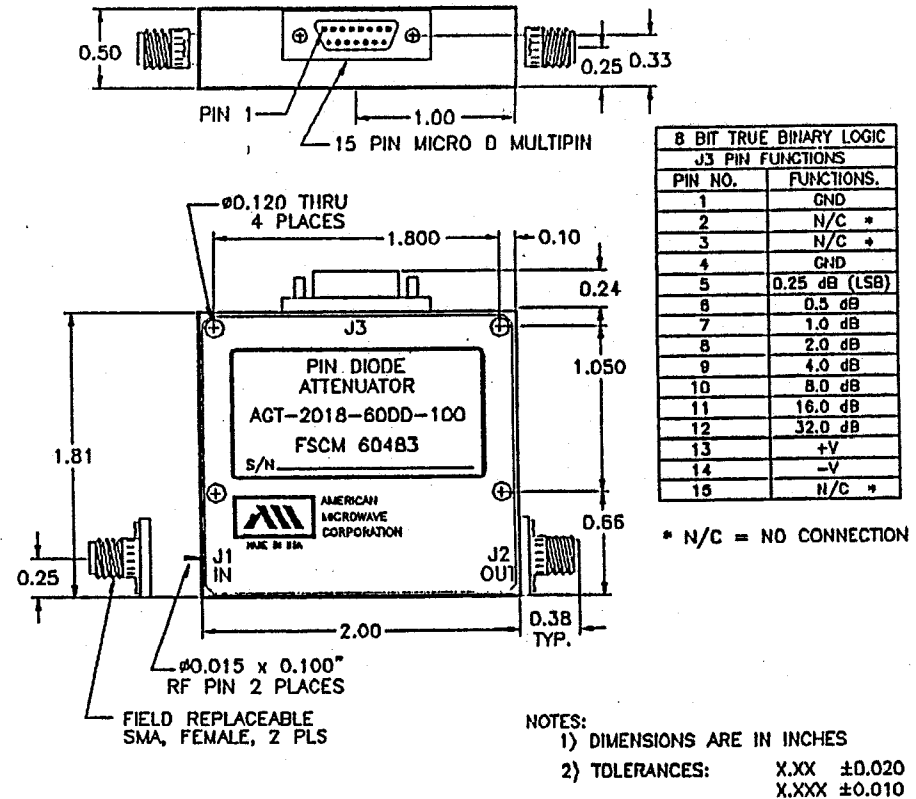
<u>FLATNESS:</u>	0 - 15dB: ±0.5dB	<u>ACCURACY:</u>	0 - 10dB: ±2.0dB
	15 - 20dB: ±1.0dB		10 - 20dB: ±1.0dB
	20 - 25dB: ±1.5dB		20 - 30dB: ±1.5dB
	25 - 30dB: ±2.0dB		
- A07 EXTENDED FREQUENCY RANGE UNITS AND OPTIONS

200M18 OPTION	EXTENDED BANDWIDTH (200 MHz - 18 GHz)
300M18 OPTION	EXTENDED BANDWIDTH (300 MHz - 18 GHz)
10M18 OPTION	EXTENDED BANDWIDTH (10 MHz - 18 GHz) REFER TO DATA SHEETS <u>AGT-2018-60DD-100</u> (DIGITAL CONTROL) OR <u>AGT-2018-60D-100</u> (SOLDER PIN ANALOG CONTROLLED).
219 OPTION	EXTENDED BANDWIDTH (2 GHz - 19 GHz)
- A08 FREQUENCY BAND OF 2 - 8 GHz
- A09 9 BIT TRUE BINARY LOGIC
- A10 10 BIT TRUE BINARY LOGIC
- A11 11 BIT TRUE BINARY LOGIC
- A12 12 BIT TRUE BINARY LOGIC
- A13 FREQUENCY BAND OF 10 MHz - 2 GHz REFER TO DATA SHEET AGT-2000-60D-100 (SLIM LINE), FOR DIGITAL VERSION REFER TO DATA SHEET AGT-2000-60DD-100 (SLIM LINE)
- A14 MOUNTING SURFACE UNPAINTED
- A15 FOR HIGH SPEED ≤1 μsec AND EXTENDED FREQUENCY RANGE REFER TO DATA SHEET AGTN-2018-60DD-100 (SLIM LINE). FOR ANALOG CONTROLLED UNITS REFER TO AGTN-2018-60D-100 (SLIM LINE).
- SCS SPECIAL CUSTOMER SPECIFICATIONS

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	09/05/97	AFG

MECHANICAL OUTLINE



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

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APPROVALS	DATE	PRODUCT FEATURE	
DRAWN: WSP/ep	09/05/97	AGT-2018-60DD-100	
CHKD: K.M. De	07/97	2-18 GHz, PROGRAMMABLE VARIABLE ATTENUATOR	
		SHEET 1 OF 2	DWG. # 100-4232