

# DESCRIPTION

AMC MODEL AGTN-2018-60D IS A BROAD BAND VARIABLE ATTENUATOR/MODULATOR, 10dB/VOLT ANALOG CONTROLLED

# 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
- SWITCHING TIME ..... <1 μsec (500 nsec TYPICAL)
- 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 ..... 10dB/VOLT ANALOG CONTROLLED
- 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 ..... SOLDER PIN CONTROL
- SIZE ..... 2.00" x 1.81" x 0.88"

# AVAILABLE OPTIONS

- A01 ..... TWO SMA MALE RF CONNECTORS
- A02 ..... J1 SMA MALE, J2 SMA FEMALE
- A03 ..... MOUNTING SURFACE UNPAINTED
- A04 ..... 5dB/VOLT SENSITIVITY
- A05 ..... ±15VDC POWER SUPPLY
- A06 ..... 0 TO 30 dB RANGE  

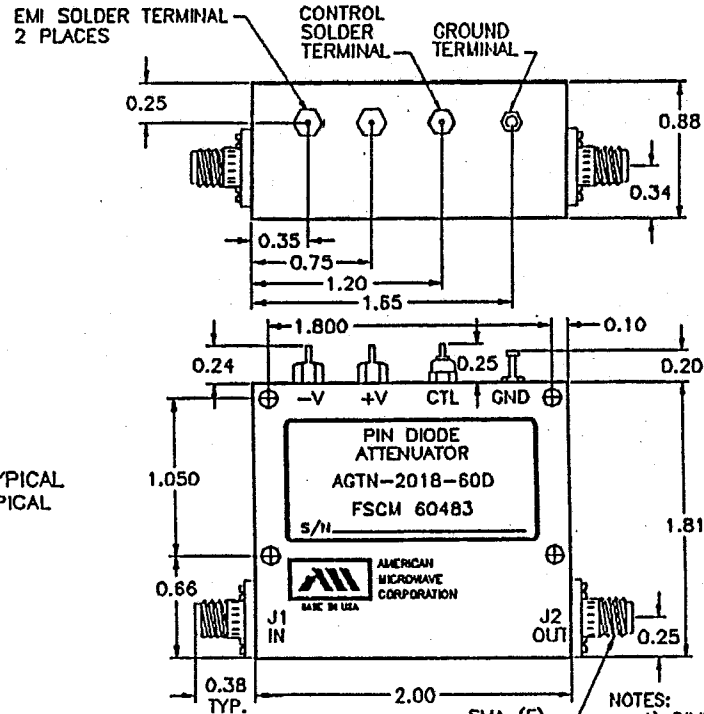
<b>FLATNESS:</b>	0 - 15dB: ±0.5dB	<b>ACCURACY:</b>	0 - 10dB: ±2.0dB
	15 - 20dB: ±1.0dB		10 - 20dB: ±1.0dB
	20 - 25dB: ±1.5dB		20 - 30dB: ±1.5dB
	25 - 30dB: ±2.0dB		
- A07 ..... EXTENDED FREQUENCY RANGE UNIT AND OPTIONS  
 200M18 OPTION ..... EXTENDED BANDWIDTH (200 MHz - 18 GHz)  
 300M18 OPTION ..... EXTENDED BANDWIDTH (300 MHz - 18 GHz)  
 10M18 OPTION ..... EXTENDED BANDWIDTH (10 MHz - 18 GHz), WITH SLOWER SPEED REFER TO AGT-2018-60D-100 (SLIM LINE). FOR DIGITAL CONTROLLED UNIT REFER TO AGT-2018-60DD-100 (SLIM LINE).
- 219 OPTION ..... EXTENDED BANDWIDTH (2 GHz - 19 GHz)
- A08 ..... FREQUENCY BAND OF 2 - 8 GHz
- A09 ..... 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)
- A10 ..... FOR HIGH SPEED ≤1 μsec DIGITAL CONTROLLED UNITS AND EXTENDED FREQUENCY RANGE REFER TO DATA SHEET AGTN-2018-60DD-100 (SLIM LINE).
- SCS ..... SPECIAL CUSTOMER SPECIFICATIONS

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

APPROVED  
**AKG**

# MECHANICAL OUTLINE



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

# 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: <i>WSP</i>	09/05/97
CHECKED: <i>P. M. J.</i>	09/9/97

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**PRODUCT FEATURE**  
**AGTN-2018-60D**  
 2-18 GHz, VOLTAGE VARIABLE ATTENUATOR

SIZE A	SHEET 1 OF 2	DWG. # 100-4225
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