DESCRIPTION

AMC MODEL AGTN−0320−60DD−100 IS A DIGITALLY CONTROLLED VARIABLE ATTENUATOR DESIGNED TO OPERATE BETWEEN THE 0.1 TO 20 GHz FREQUENCY RANGE, 0.3 TO 18 GHz OPTIMIZED.

SPECIFICATIONS

- FREQUENCY RANGE: ..... 0.1 TO 20 GHz (0.3 TO 18 GHz OPTIMIZED)
- INSERTION LOSS: ..... 5.0 dB MAXIMUM
- ATTENUATION FLATNESS: ... 0−10 dB ± 1.0 dB MAXIMUM
  (± dB MAXIMUM) 10−30 dB ± 2.0 dB MAXIMUM
  30−50 dB ± 3.0 dB MAXIMUM
  50−60 dB ± 7.0 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: ..... 20 uSec 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: ..... +12 VDC @ 250 mA MAXIMUM
  −12 VDC @ 50 mA MAXIMUM
- CONNECTORS:
  RF INPUT/OUTPUT: ..... SMA FEMALE
  POWER AND CONTROLS: .... 15 PIN MICRO−D SUBMINIATURE (FEMALE, 15SSP)
  MATING CONNECTOR FURNISHED
- SIZE: ..... 2.00" x 1.81" x 0.50"

8 BIT TRUE BINARY LOGIC	
J3 PIN FUNCTIONS	
PIN NO.	FUNCTIONS.
1	GND
2	* N/C
3	* N/C
4	GND
5	0.25 dB
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

* N/C = NO CONNECTION

OPTIONS:

- 0318: ..... 0.3 TO 18 GHz OPTIMIZED
  HS1US ..... HIGH SPEED 1uSEC MAXIMUM

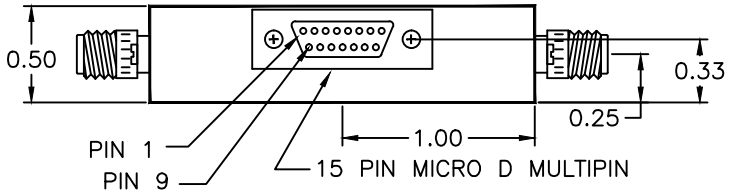
ENVIRONMENTAL RATINGS:

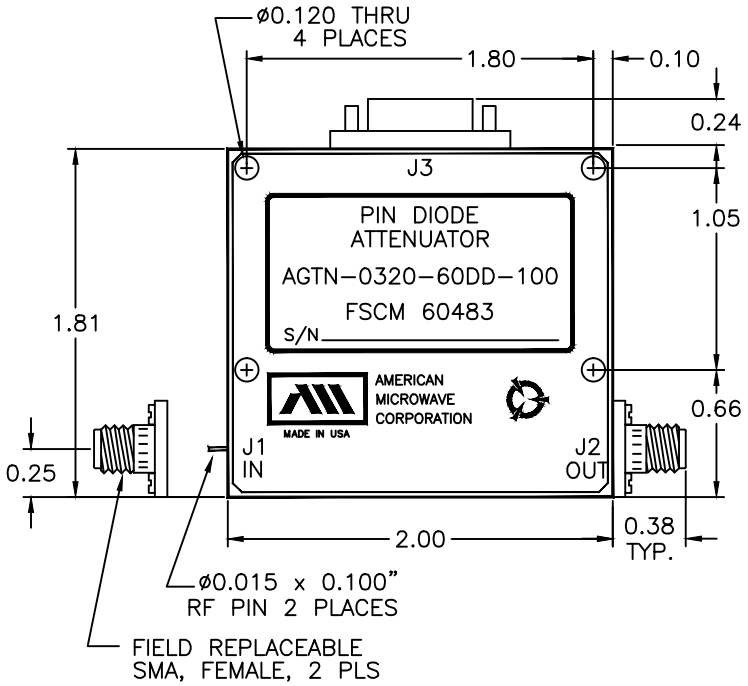
- TEMPERATURE: ..... −40°C TO +85°C (OPERATING)
  −65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL−STD−202F, METHOD 103B COND. B
- SHOCK: ..... MIL−STD−202F, METHOD 213B COND. B
- VIBRATION: ..... MIL−STD−202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL−STD−202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ..... MIL−STD−202F, METHOD 107D COND. A

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.

ALL DIMENSIONS ARE IN INCHES
TOLERANCES: X.XX ±0.020
X.XXX ±0.010

REVISIONS				
ECR	REV.	DESCRIPTION	DATE	APPROVED
	−	ORIGINAL RELEASE JOB# 508201XN−3	9/20/05	
07−032	A	CHNG. DB CONN. TO FEMALE	02/27/07	RA
07−033	B	CHNG. DB CONN. FOR ATNT1	03/20/07	RA
	C	SEE ECN# 19−034	04/26/19	RRA





ISO 9001:2015 CERTIFIED

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

APPROVALS	DATE
DRAWN JDT	9/20/05
ENG. RRA	4/12/19
QAE RRA	4/12/19

TITLE
PRODUCT FEATURE
AGTN−0320−60DD−100
0.1−20 GHz, DIGITALLY CONTROLLED VARIABLE ATTENUATOR
0.3−18 GHz OPTIMIZED FREQUENCY RANGE

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100−A004−000	C

SCALE N:S SHEET 1 OF 1