

DESCRIPTION

AMC MODEL AGTN-2018-120DD-100-054-ITT-DJ IS A BROAD BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 9 BIT POSITIVE TRUE BINARY LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE 0.5-4.0 GHz MINIMUM
- INSERTION LOSS 5.0 dB MAXIMUM
- ATTENUATION FLATNESS (± dB MAXIMUM)

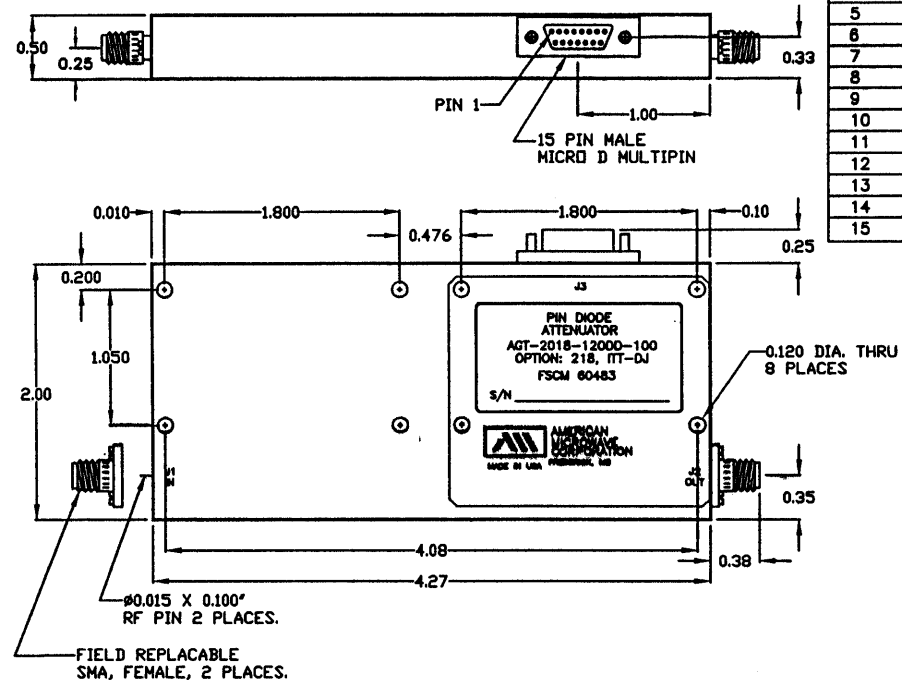
0-30	dB	±1.0	dB	MAXIMUM
30-40	dB	±1.5	dB	MAXIMUM
40-50	dB	±2.5	dB	MAXIMUM
50-80	dB	±4.0	dB	MAXIMUM
80-120	dB	±11.0	dB	MAXIMUM
- ATTENUATION ACCURACY

0-20	dB	±2.5	dB	MAXIMUM
20-30	dB	±1.5	dB	MAXIMUM
30-50	dB	±1.5	dB	MAXIMUM
50-80	dB	±2.0	dB	MAXIMUM
80-120	dB	±2.5	dB	MAXIMUM
- SWITCHING TIME <1 μsec
- VSWR 2.0:1 MAXIMUM
- MONOTONICITY IN ATTENUATION AND SPEED
- POWER HANDLING +20 dBm
- CONTROL 9 BIT TRUE BINARY LOGIC
0.25 dB PER BIT
- POWER SUPPLY +15VDC @ 375 mA MAXIMUM
-15VDC @ 50 mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUT SMA FEMALE
POWER AND CONTROLS 15 PIN MICRO-D SUBMINIATURE (MALE)
MATING CONNECTOR FURNISHED
- SIZE 4.27" x 2.00" x 0.50"

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		JOB# 80239E, ITT AVIONICS	06/17/98	

MECHANICAL OUTLINE

9 BIT TRUE BINARY LOGIC	
J3 PIN #	PIN FUNCTION
1	GND
2	LATCHING STROBE OPTIONAL
3	0.25 dB (LSB)
4	GND
5	0.5 dB
6	1.0 dB
7	2.0 dB
8	4.0 dB
9	8.0 dB
10	16.0 dB
11	32.0 dB
12	64.0 dB (MSB)
13	+V
14	-V
15	N/C



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

NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ±0.020
X.XXX ±0.010

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

		AMERICAN MICROWAVE CORPORATION 7311G GROVE RD., FREDERICK, MD. 21701 TEL: (301) 662-4700 FAX: (301) 662-4938	
PRODUCT FEATURE AGTN-2018-120DD-100-054-ITT-DJ 2-18 GHz, PROGRAMMABLE VARIABLE ATTENUATOR			
APPROVALS DRAWN: <i>BLG</i> CHECKED: <i>WP</i>	DATE 06/17/98 6/19/98	SIZE A	SHEET 1 OF 2 DWG. # 100-4414-3

LA-XLS 6/17/98