

DESCRIPTION

AMC MODEL AGTN-2018-120DD-100-218-ITT-DJ IS A BROAD BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 9 BIT POSITIVE TRUE BINARY LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE 2.0-18.0 GHz MINIMUM
- INSERTION LOSS 4.5 dB MAXIMUM @ 2.0 GHz (4.0 dB GOAL)
9.0 dB MAXIMUM @ 18.0 GHz (8 dB GOAL)
- 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 CW OR PULSE WITHOUT DEGRADATION
- 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"

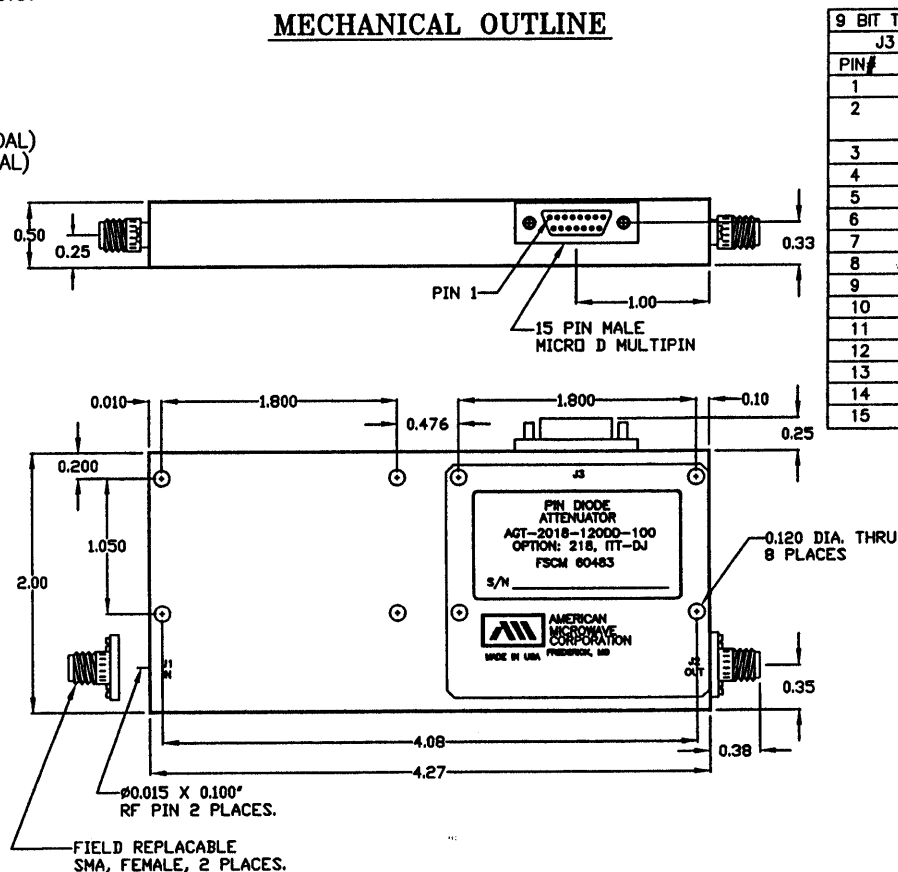
ENVIRONMENTAL RATINGS

- 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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		JOB# 80238E, ITT AVIONICS	06/17/98	

MECHANICAL OUTLINE



9 BIT TRUE BINARY LOGIC	
J3 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

NOTES:

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

APPROVALS	DATE
DRAWN <i>RLG</i>	06/17/98
CHECKED <i>AWP</i>	6/19/98

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PRODUCT FEATURE

AGTN-2018-120DD-100-218-ITT-DJ
2-18 GHz, PROGRAMMABLE VARIABLE ATTENUATOR

SIZE A SHEET 1 OF 2 DWG. # 100-4414-2