

DESCRIPTION

AMC MODEL ADVAN-218-30DD IS A DIGITALLY VARIABLE ATTENUATOR OPERATING OVER A FREQUENCY RANGE OF 2 TO 18 GHz. THIS HIGH SPEED ATTENUATOR HAS A DYNAMIC RANGE OF 30 dB, AND USES 5 BIT BINARY CONTROL.

SPECIFICATIONS

- FREQUENCY RANGE: 2 TO 18 GHz
- INSERTION LOSS: 12 dB TYPICAL, 13 dB MAXIMUM @ 18 GHz
- DYNAMIC RANGE: 0 - 30 dB MINIMUM
- BIT ACCURACY: 1dB ATTENUATION STEPS ACCURATE WITHIN $\pm 25\%$ AT ANY FREQUENCY
- FLATNESS
 - 0 - 10 dB: ± 1.0 dB MAXIMUM
 - 10 - 30 dB: ± 4.0 dB MAXIMUM
- MONOTONICITY: GUARANTEED
- SPEED: <15 nS MAXIMUM (TO WITHIN 0.5 dB OF FINAL ATTENUATION)
- TEMPERATURE STABILITY: <0.02 dB/DEGREES C
- LINEARITY: <10% DIFFERENCE FROM BEST FIT LINE
- CONTROL: 5-BIT BINARY
- CONNECTORS
 - RF: SMA FEMALE
 - CONTROL: DA-15P WITH JACK POST
- POWER SUPPLY: ± 15 VDC OR +5, -15 VDC
- WEIGHT: 1.5 OUNCE TYPICAL

OPTIONS:

- 618: FREQUENCY RANGE 6 - 18 GHz

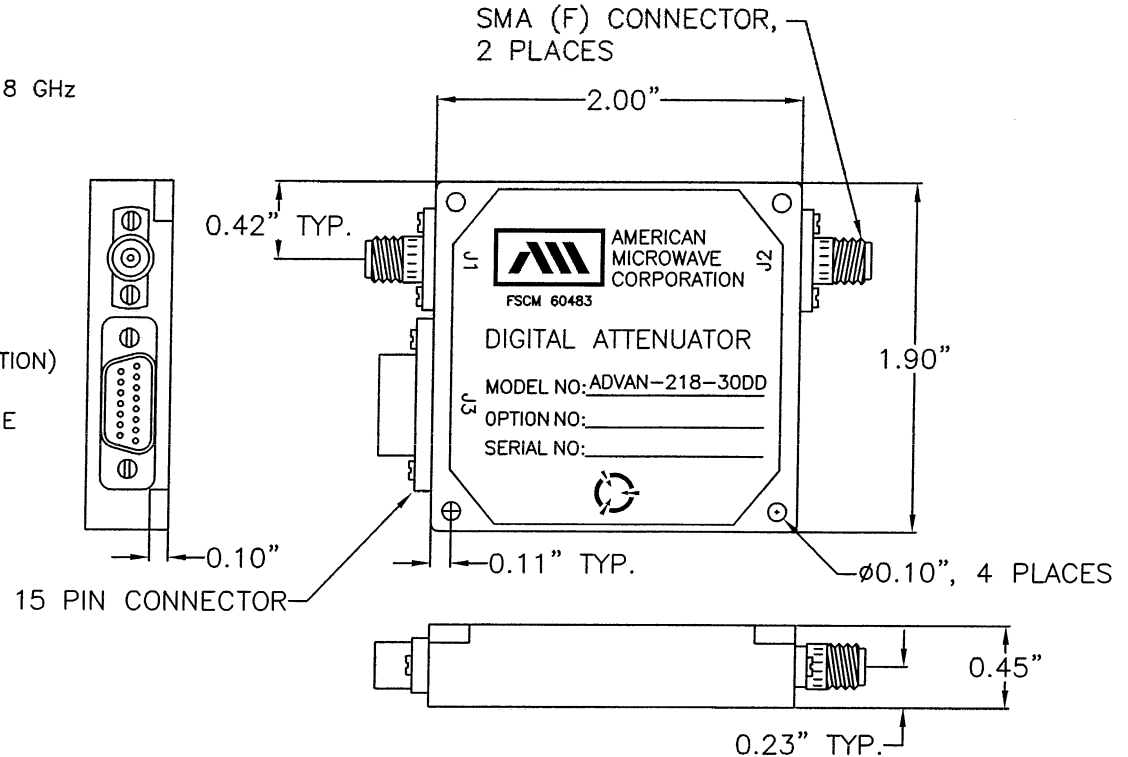
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-		ORIGINAL RELEASE JOB# 412299PE	2/15/05	



AMERICAN MICROWAVE CORPORATION

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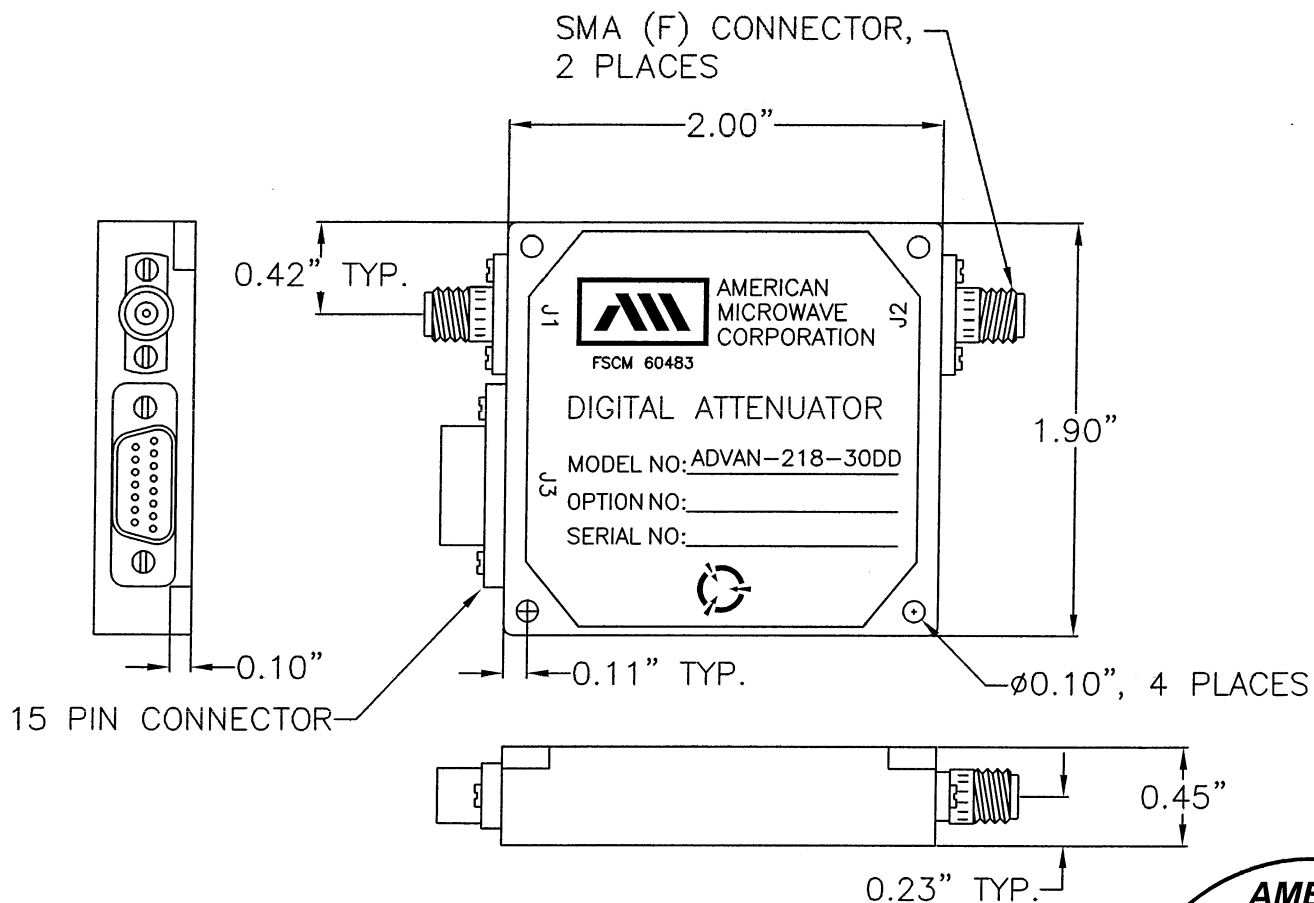


APPROVALS		DATE	TITLE			REV.
DRAWN <i>JKM</i>		2/15/05	PRODUCT FEATURE A-DVAN-218-30DD			-
CHECKED <i>LC</i>		3/31/05	2 - 18 GHz DIGITAL VARIABLE ATTENUATOR			-
ISSUED			SIZE	FSCM NO.	DWG NO.	
			A	60483	100-7331	
			SCALE	N:S		SHEET
					1 OF 3	

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MECHANICAL OUTLINE

CONNECTIONS:

PIN	CONNECTION
1	GND
2	-Vin
3	+Vin
4	A0
5	A1
6	A2
7	A3
8	A4
9	N/C
10	N/C
11	A0GND
12	A1GND
13	A2GND
14	A3GND
15	A4GND

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 X.XXX ±0.010

APPROVALS		DATE	TITLE			
DRAWN	<i>JKM</i>	2/15/05	MECHANICAL OUTLINE A-DVAN-218-30DD 2 - 18 GHz DIGITAL VARIABLE ATTENUATOR			
CHECKED	<i>LB</i>	3/31/05	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-7331	-
			SCALE	N:S	SHEET	2 OF 3