

DESCRIPTION

AMC MODEL ADVAN-218-15DD OPTIONS: 50M18, HS25NS, IND IS A DIGITALLY VARIABLE ATTENUATOR. IT IS A HIGH SPEED ATTENUATOR DESIGNED TO OPERATE OVER THE FULL 50 MHz TO 18 GHz FREQUENCY RANGE THAT HAS A DYNAMIC RANGE OF 15 dB, AND USES 5 BIT BINARY CONTROL.

SPECIFICATIONS

- FREQUENCY RANGE: 50 MHz TO 18 GHz
- DYNAMIC RANGE: 15 dB MINIMUM
- INSERTION LOSS: 6 dB MAXIMUM
- BIT ACCURACY: 0.5, 1.0 dB ATTENUATION STEPS
ACCURATE WITHIN $\pm 25\%$ AT
ANY SINGLE FREQUENCY
- FLATNESS: 0-10 dB: ± 1.0 dB MAXIMUM
10-15 dB: ± 1.5 dB MAXIMUM
- MONOTONICITY: GUARANTEED
- SPEED: 25 nSec MAXIMUM (TO WITHIN 0.5 dB
OF FINAL ATTENUATION)
- TEMPERATURE STABILITY: < 0.02 dB/ $^{\circ}$ C
- LINEARITY: $< 10\%$ DIFFERENCE FROM BEST FIT LINE
- CONTROL: 5 BIT BINARY
- CONNECTORS:
RF: SMA FEMALE
CONTROL: DA-15P WITH JACK POST ASSEMBLY
- POWER SUPPLY: ± 15 VDC OR +5, -15 VDC

OPTIONS:

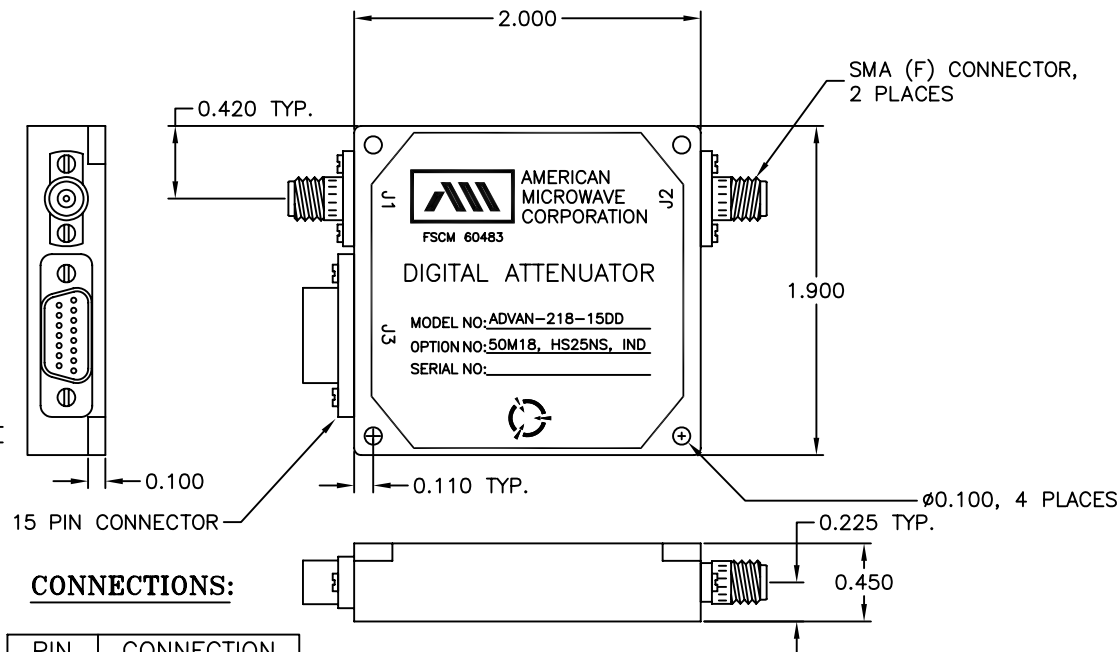
- 50M18: 50 MHz TO 18 GHz FREQUENCY RANGE
- HS25NS: HIGH SPEED OF 25 nSec
- IND: INDUSTRIAL GRADE SPECIFICATIONS

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55° C TO $+85^{\circ}$ C (OPERATING)
..... -65° C TO $+125^{\circ}$ 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 512278	3/29/06	Rd



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	AOGND
12	A1GND
13	A2GND
14	A3GND
15	A4GND

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

AMERICAN MICROWAVE CORPORATION

7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.americamicrowavecorp.com
E-MAIL: sales@americamicrowavecorp.com
ISO 9001:2000 CERTIFIED



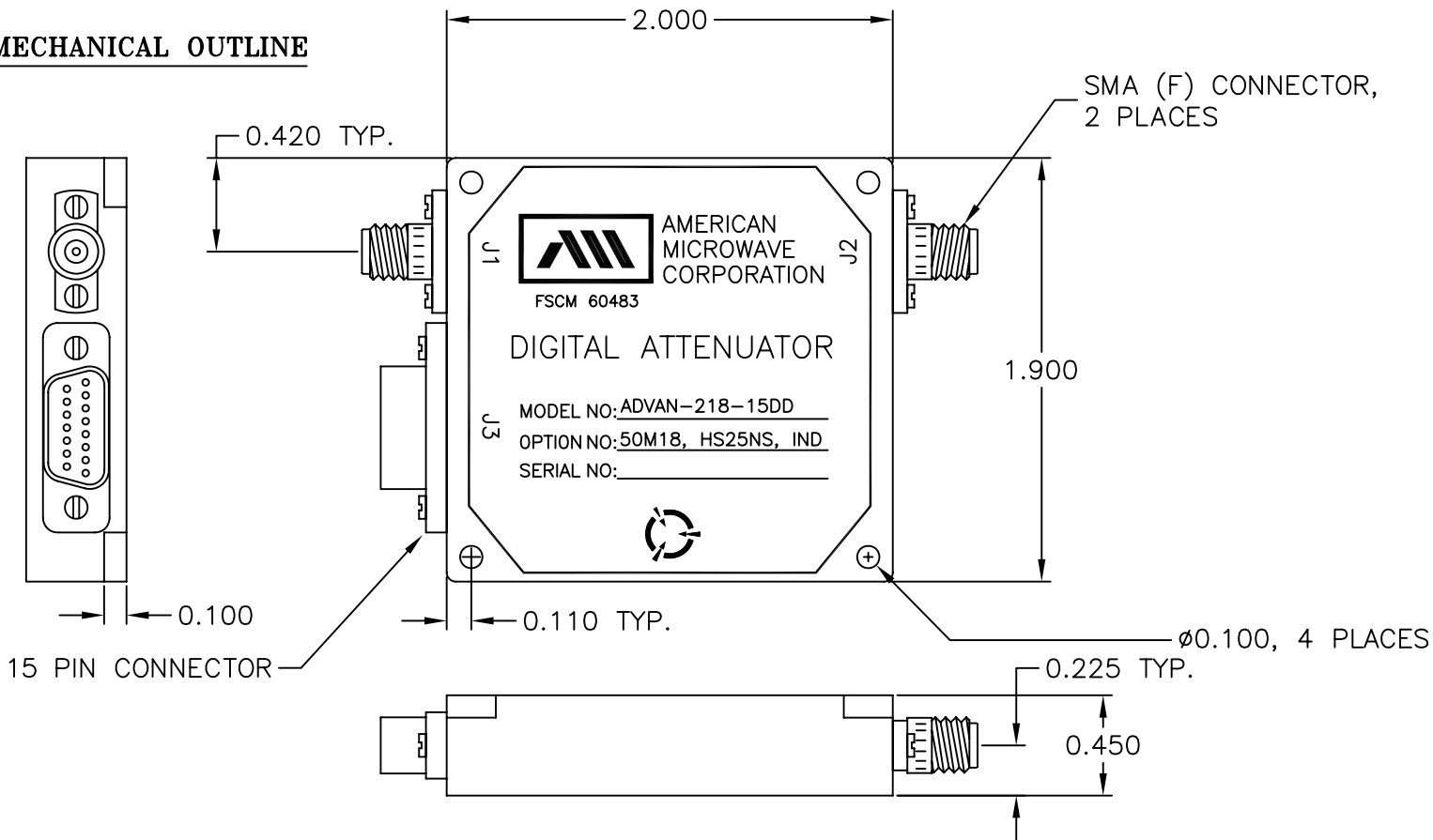
APPROVALS		DATE	TITLE			
DRAWN	<i>JDJ</i>	3/29/06	PRODUCT FEATURE ADVAN-218-15DD OPTION: 50M18, HS25NS, IND 0.05-18 GHz, DIGITALLY VARIABLE ATTENUATOR			
CHECKED	<i>Rd</i>	3/30/06	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-7634	-
			SCALE	N:S	SHEET	1 OF 3

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 512278	9/29/06	RA

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	AOGND
12	A1GND
13	A2GND
14	A3GND
15	A4GND

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 TOLERANCES:
 X.XX ±0.020
 X.XXX ±0.010

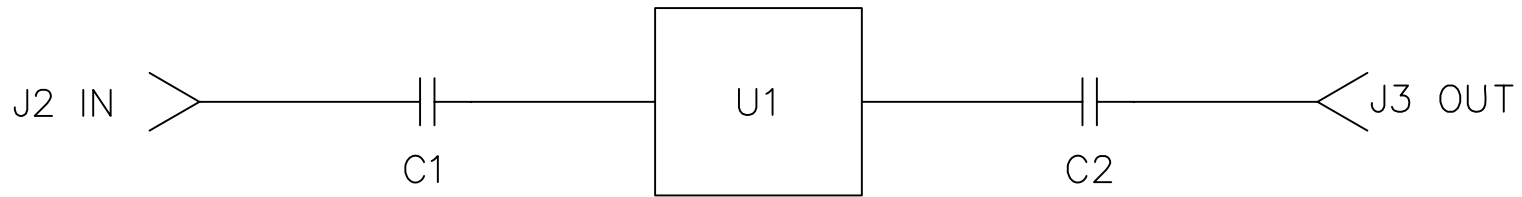
APPROVALS		DATE	TITLE		
DRAWN	<i>DDJ</i>	9/29/06	MECHANICAL OUTLINE ADVAN-218-15DD OPTION: 50M18, HS25NS, IND 0.05-18 GHz, DIGITALLY VARIABLE ATTENUATOR		
CHECKED	<i>RA</i>	9/30/06	SIZE	FSCM NO.	DWG NO.
ISSUED			A	60483	100-7634
			SCALE	N:S	SHEET 2 OF 3

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ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 512278 ITT INDUSTRIES, MA	3/29/06	RA

FUNCTIONAL BLOCK DIAGRAM



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 E-MAIL: sales@americanmicrowavecorp.com
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APPROVALS		DATE	TITLE		
DRAWN		3/29/06	FUNCTIONAL BLOCK DIAGRAM ADVAN-218-15DD		
CHECKED		3/30/06	OPTION: 50M18, HS25NS, IND 0.05-18 GHz, DIGITALLY VARIABLE ATTENUATOR		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	60483	100-7634
			SCALE	SHEET	
			N:S	3 OF 3	