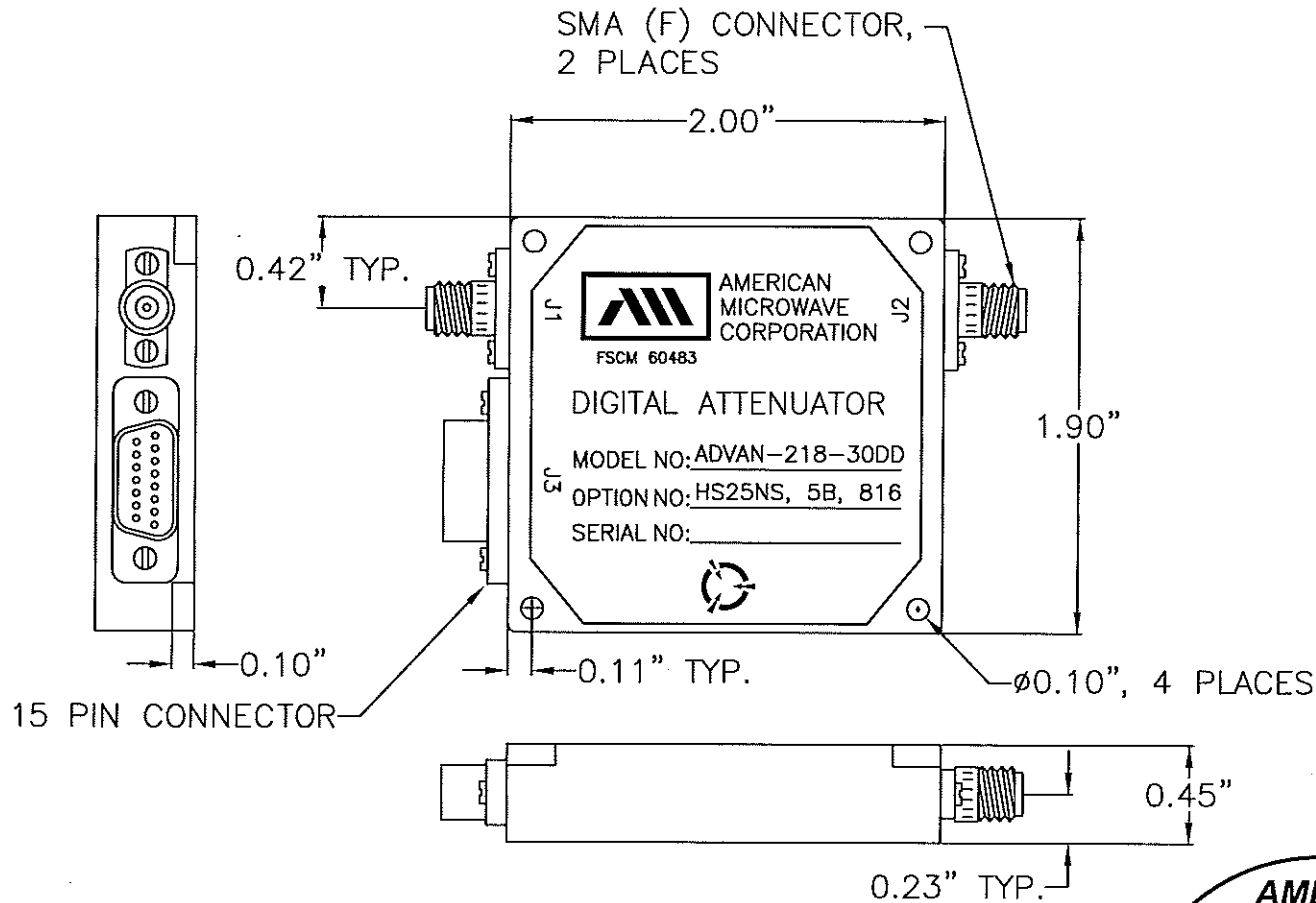


DESCRIPTION

AMC MODEL ADVAN-218-30DD OPT. HS25NS, 5B, 816 IS A DIGITALLY VARIABLE ATTENUATOR OPERATING OVER A FREQUENCY RANGE OF 8 TO 16 GHz. THIS HIGH SPEED ATTENUATOR HAS A DYNAMIC RANGE OF 30 dB, AND USES 5 BIT BINARY CONTROL.



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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 WEBSITE: www.americanmicrowavecorp.com
 E-MAIL: sales@americanmicrowavecorp.com
 ISO 9001:2000 CERTIFIED



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

APPROVALS		DATE	TITLE			
DRAWN <i>PMW</i>		1/17/08	MECHANICAL OUTLINE A-DVAN-218-30DD OPT. HS25NS, 5B, 816 2 - 18 GHz DIGITAL VARIABLE ATTENUATOR			
CHECKED <i>PK</i>		1/17/08	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-7331-2	-
			SCALE N:S			SHEET 2 OF 3

DESCRIPTION

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SPECIFICATIONS

- FREQUENCY RANGE: 8 TO 16 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: 25 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:

- 816 FREQUENCY RANGE 8 - 16 GHz
- HS25NS HIGH SPEED 25 nSEC
- 5B 5 BIT

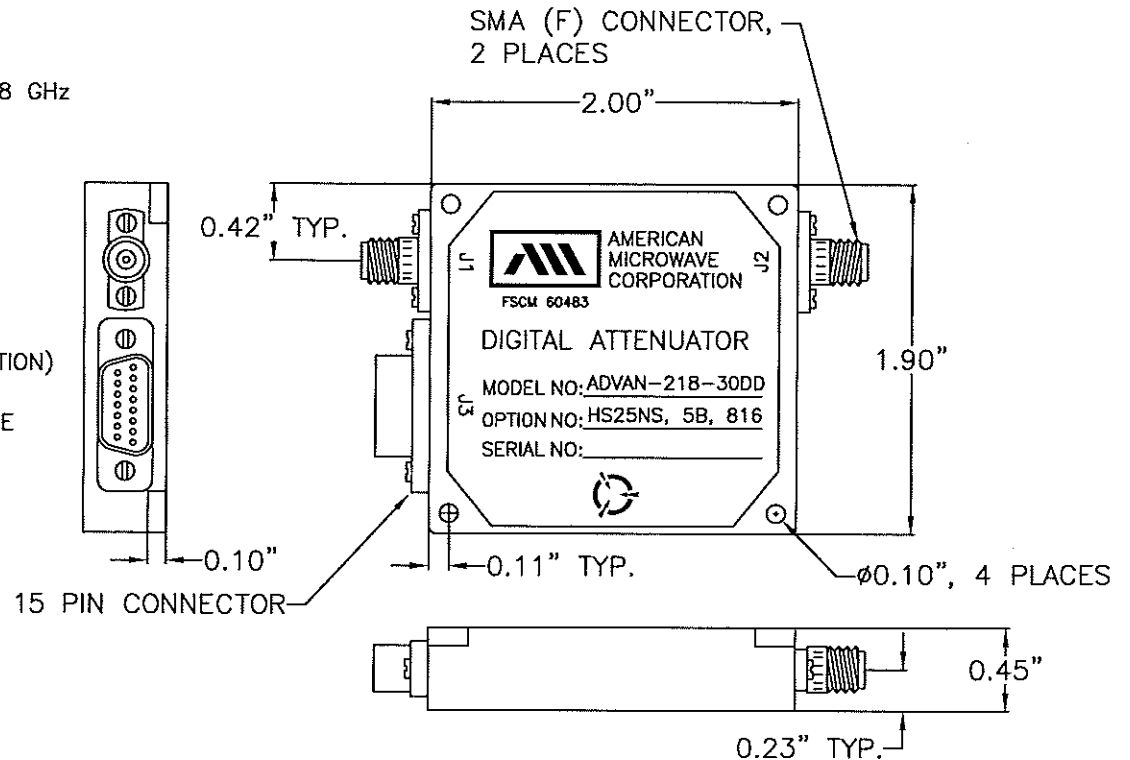
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO $+85^{\circ}\text{C}$ (OPERATING)
..... -65°C TO $+125^{\circ}\text{C}$ (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
	-	ORIGINAL RELEASE JOB# 801002DPP	1/17/08



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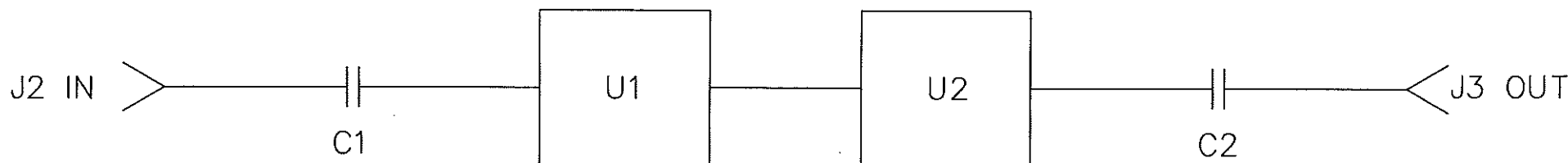


APPROVALS		DATE	TITLE			REV.
DRAWN <i>P.M.V.</i>		1/17/08	PRODUCT FEATURE A-DVAN-218-30DD OPT. HS25NS, 5B, 816 8 - 16 GHz DIGITAL VARIABLE ATTENUATOR			-
CHECKED <i>[Signature]</i>		1/17/08	SIZE A	FSCM NO. 60483	DWG NO. 100-7331-2	-
ISSUED			SCALE N:S	SHEET 1 OF 3		

DESCRIPTION

AMC MODEL ADVAN-218-30DD OPT. HS25NS, 5B, 816 IS A DIGITALLY VARIABLE ATTENUATOR OPERATING OVER A FREQUENCY RANGE OF 8 TO 16 GHz. THIS HIGH SPEED ATTENUATOR HAS A DYNAMIC RANGE OF 30 dB, AND USES 5 BIT BINARY CONTROL.

FUNCTIONAL BLOCK DIAGRAM



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CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE		
DRAWN <i>P.M.V.</i>		1/17/08	FUNCTIONAL BLOCK DIAGRAM		
CHECKED <i>pb</i>		1/17/08	A-DVAN-218-30DD		
ISSUED			OPT. HS25NS, 5B, 816		
SIZE	FSCM NO.	DWG NO.	REV.		
A	60483	100-7331-2	-		
SCALE N:S			SHEET 3 OF 3		