

ELECTRICAL

FREQUENCY RANGE _____ DC- 18GHz

ATTENUATION ACCURACY ACROSS FREQ. RANGE

01-06 dB	±0.30 dB
07-10 dB	±0.50 dB
11-20 dB	±0.75 dB
21-30 dB	±1.00 dB

VSWR

DC - 4 GHz	1.15:1 MAX
6 - 12.4 GHz	1.25:1 MAX
12.4 - 18 GHz	1.35:1 MAX

INPUT POWER _____ 2 WATTS AVG. @ 25°C
DERATES LINEARLY TO 10% @ 125°C FROM 25°C

RF LEAKAGE/RFI _____ >65 dBc (>90 dBc TYP.)

PEAK POWER _____ 500 WATTS

IMPEDANCE _____ 50 OHMS
(5mSec PULSE WIDTH, .25% DUTY CYCLE)

OPERATING TEMP RANGE _____ -65°C TO +125°C

Temperature Coefficient of Attenuation (dB/dB/°C) _____ .0006 (Typ. approaches Class II <.0001)
Power Coefficient of Attenuation (dB/dB/Watt) _____ .005 (Typ. approaches Class II <.001)
(Above coefficients correspond with a Class IV device per MIL-DTL-3933)

CONFORMANCE TESTING IS 100 % ATTENUATION AND V.S.W.R.
ACROSS SWEPT FREQUENCY RANGE OF >20°C & <30°C

PART ORDERING INFORMATION: TYPE N MALE TO FEMALE (MALE TO MALE & FEMALE TO FEMALE AVAIL.)

"-DB": SIGNIFIES NOMINAL DB VALUE OF UNIT IN 1 dB INCREMENTS

-03 = 3.0 dB Nominal .75" Long -20 = 20.0 dB Nominal .86" Long

For 1/2 dB units use 50 thru 59 for 0.5 dB thru 9.5 dB

-50 = 0.5 dB Nominal .75" Long -57 = 7.5 dB Nominal .75" Long

MECHANICAL

CONNECTOR BODIES _____ PASSIVATED STAINLESS STEEL
CENTER CONDUCTORS _____ GOLD PLATED BERYLLIUM COPPER
INSULATORS _____ PTFE (TEFLON) IAW ASTM-D1710
RESISTIVE ELEMENT _____ THIN FILM ON CERAMIC RESISTIVE CIRCUIT
NOT A HERMETIC SEALED UNIT

RoHS Compliant Device

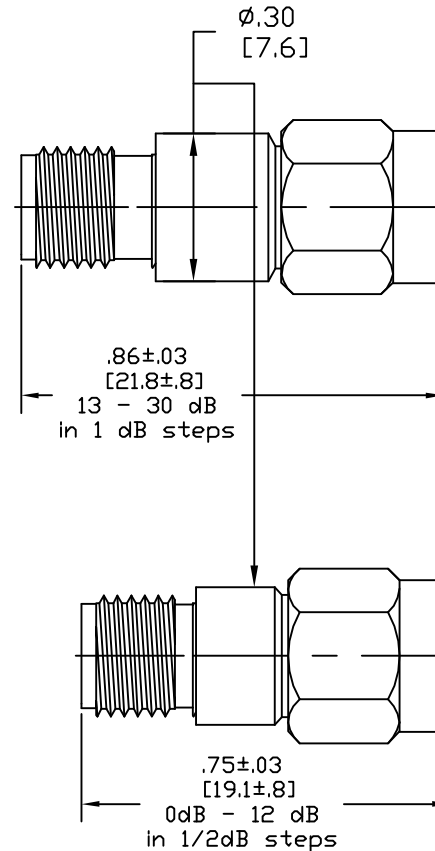
MATERIALS, ENVIRONMENTAL PERFORMANCE & FINISHES COMPLY TO MIL-DTL-3933

**PRODUCTION
RELEASE**

NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION
INTERPRET IAW ANSI Y14.5-1995

REVISIONS

REV	DESCRIPTION	APPROVED
D	REDRAWN INTO AUTOCAD	04/17/2009 D. Saunders



DRAWING PRACTICES PER ANSI-Y14.5 MIL-STD-100 & 1000	UNLESS OTHERWISE SPECIFIED TOLERANCES IN DECIMALS INCH IN	DRAWN D. SAUNDERS	DATE
DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	.XX .XXX .XXXX .XXXXX	CHECKED	DATE
SURFACE ROUGHNESS	✓	ENG.	DATE
FINISH	ANGLES	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF XMA CORP. OR OMNI SPECTRA AND SHALL NOT BE REPRODUCED, COPIED NOR USED IN WHOLE OR IN PART AS A BASIS FOR THE MANUFACTURE OR SALE OF OTHER ITEMS WITHOUT THE EXPRESS WRITTEN PERMISSION OF XMA CORP.	
MATERIAL	UNLESS OTHERWISE NOTED DIA5 CONCENTRIC <.003 T.I.R.	SCALE	4:1
SEE NOTES		SIZE	C
SEE NOTES		CAGE CODE	3HT76
		DWG NO.	2082-6340-DB

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TITLE
**ATTENUATOR ULTRA-MINI
SMA, 2 W, 18 GHz**

SCALE 4:1
SHEET 1 OF 1