

4

3

2

1

SPECIFICATIONS

ELECTRICAL

FREQUENCY RANGE_DC- 18GHz

ATTENUATION ACCURACY

0.25 dB	+ .030/- .025 dB (2082-6418-XX25)
0 - 6 dB (and Half dB Steps)	±0.30 dB
7 - 20 dB (and Half dB Steps to 11.5)	±0.50 dB
30 dB	±0.75 dB
40 dB	±2.00 dB

VSWR

DC - 6 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

PEAK POWER

500 WATTS
(5 µSec PULSE WIDTH, .05% DUTY CYCLE)

IMPEDANCE

50 OHMS

OPERATING TEMP RANGE

4 KELVIN TO +125°C
150° C STORAGE

CONFORMANCE TESTING IS 100% ATTENUATION AND V.S.W.R. ACROSS SWEPT FREQUENCY RANGE AT 20-25°C

MECHANICAL

CONNECTOR BODIES

PASSIVATED STAINLESS STEEL PER MIL-PRF-39012/MIL-DTL-3933

CENTER CONDUCTORS

GOLD PLATED BERYLLIUM COPPER (C17200 OR C17300 IAW ASTM B196) per MIL-PRF-39012/MIL-DTL-3933

INSULATORS

PTFE (TEFLON) IAW ASTM-D1710

RESISTIVE ELEMENT

THIN FILM ON CERAMIC RESISTIVE CIRCUIT

NOT A HERMETIC SEALED UNIT

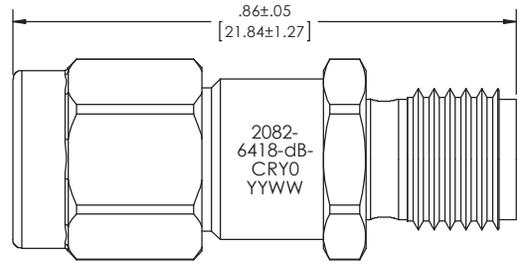
RECOMMENDED CONNECTION TORQUE IS 7-8 in./Lbs. (0.8 to 0.9 Nm)

RoHS COMPLIANT DEVICE

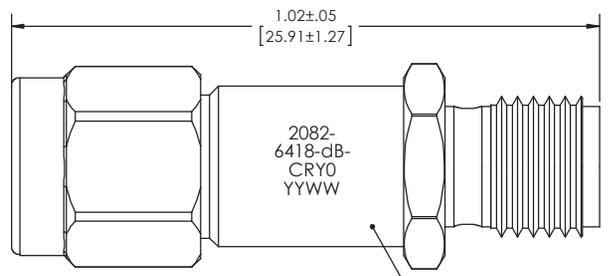
MARKING

PART LOOKS LIKE PRODUCT IMAGE ABOVE.
PART MARKING ORIENTATION AND FORMAT AS SHOWN.
REPLACE dB WITH APPROPRIATE TWO DIGIT dB VALUE.
MARKING TO BE AS LARGE AS POSSIBLE, CLEAR, READABLE.
YYWW EQUALS DATE CODE.

REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
X2	PRELIMINARY RELEASE	13-ER042	10-16-13	T.KUHN
A	CHANGED OPERATING TEMP TO 4K	13-250	10/18/13	T.KUHN
B	CHANGED FORMAT/ADDED MARKING	14-414	12/22/14	T.KUHN



00 THRU 12 dB



13 THRU 40 dB

QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
	2082-6418-dB-CRYO	ATTENUATOR, SMA-m/f, DC-18GHz, 2W	
1	TA-2082-6400-dBXU	ASSEMBLY, ATTENUATOR, SMA-m/f, DC-18GHz, 2W UNMARKED	1

DRAWING PRACTICES PER ANSI Y14.5 DIMENSIONS ARE IN INCHES AND APPLY BEFORE/ AFTER PROCESSING	
SURFACE FINISH 63	UNLESS OTHERWISE SPECIFIED TOLERANCES IN: DECIMALS INCH [MM] X" .05" [1.27] .XX" .03" [.76] .XXX" .010" [.25]
FINISH: SEE NOTES	ANGLES ±0°30' REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.F.
MATERIAL: SEE NOTES	DO NOT SCALE PRINT
NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.	
INTERPRET IAW ANSI Y14.5-1982	

DRAWN V.SHELBY	DATE 7/15/13
CHECKED MCCORMICK	DATE 7/15/13
ENG APPR. T.KUHN	DATE 7/15/13
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.	

XMA Omni Spectra®
Phone: 603-222-2256 Fax: 603-222-2259
150 Dow Street, Manchester, NH 03103

ATTENUATOR, SMA-m/f, DC-18GHz, 2W

SIZE	CAGE CODE	DRAWING NUMBER	REV
C	3HT76	2082-6418-dB-CRYO	B

SCALE: PLATED AREA 90 IN SHEET 1 OF 1

4

3

2

1