

**SPECIFICATIONS**

**ELECTRICAL**  
 FREQUENCY RANGE \_\_\_\_\_ DC- 18GHz  
 ATTENUATION ACCURACY  
 0 - 6 dB (and Half dB Steps) \_\_\_\_\_ ±0.30 dB  
 7 - 20 dB (and Half dB Steps to 11.5) \_\_\_\_\_ ±0.50 dB  
 25 & 30 dB \_\_\_\_\_ ±0.75 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

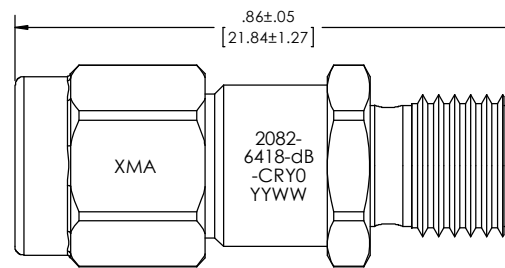
NOT A HERMETIC SEALED UNIT  
 RECOMMENDED CONNECTION TORQUE IS 7-8 in./Lbs. (0.8 to 0.9 Nm)

RoHS COMPLIANT DEVICE

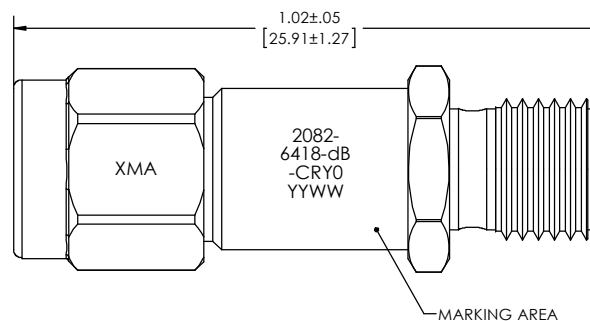
**MARKING**

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
B	CHANGED FORMAT/ADDED MARKING	14-414	12/22/14	T.KUHN
C	ADDED 25 dB	16-014	1/21/16	T.KUHN
D	REVISED MARKING	16-065	3/30/16	T.KUHN
E	DELETED 0.25 dB ATTEN FROM SPECS	16-093	4/26/16	T.KUHN



**00 THRU 12 dB**



**13 THRU 30 dB**

QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
	2082-6418-dB-CRYO	ATTENUATOR, SMA-m/f, DC-18GHz, 2W	
1	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 ROUGHNESS FINISH: 63 SEE NOTES MATERIAL: NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION. INTERPRET IAW ANSI Y14.5-1982	UNLESS OTHERWISE SPECIFIED TOLERANCES IN: DECIMALS INCH (MM) .X" .05" [1.27] .XX" .03" [.76] .XXX" .010" [.25] ANGLES ±0°30' REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.F. DO NOT SCALE PRINT	DRAWN V.SHELBY 7/15/13 CHECKED MCCORMICK 7/15/13 ENG APPR. T.KUHN 7/15/13 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.
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**XMA** OMNI SPECTRA

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

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

SCALE: PLATED AREA 50 IN SHEET 1 OF 1