

# 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

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 SWPT 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

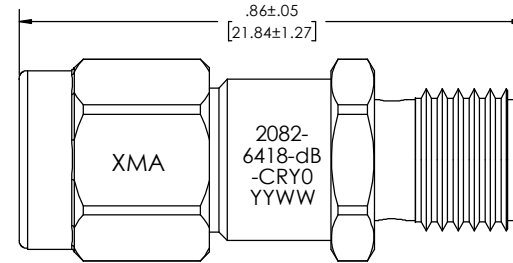
NOT A HERMETIC SEALED UNIT  
RECOMMENDED CONNECTION TORQUE IS 7-8 in./Lbs. (0.8 to 0.9 Nm)

## MARKING

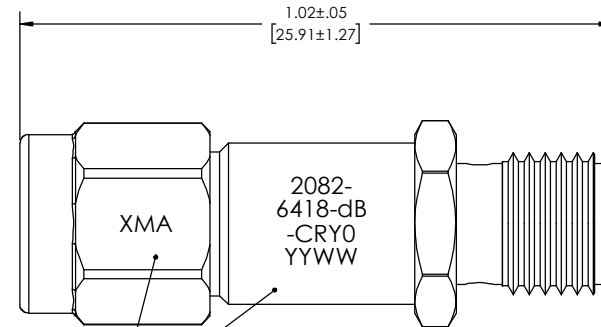
PART LOOKS LIKE PRODUCT IMAGE ABOVE.  
PART MARKING ORIENTATION AND FORMAT AS SHOWN.  
REPLACE "dB" WITH APPROPRIATE TWO DIGIT dB VALUE.  
MARKING TO BE AS LARGE AS POSSIBLE, CLEAR, READABLE.  
YYWW EQUALS DATE CODE.

## REVISIONS

REV	DESCRIPTION	ECO #	DATE	APPROVED
E	DELETED 0.25 dB ATTN FROM SPECS	16-093	4/26/16	T.KUHN
F	CHANGED ASSY IN BOM	17-057	4/26/17	T.KUHN
G	REMOVED RoHS STATEMENT	23-065	6/21/23	MH
H	REMOVED PEAK POWER	23-145	11/29/23	DEL



**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	TA-2082-6400-dBXU-CRYO	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	63
SURFACE ROUGHNESS IN INCHES	
FINISH:	
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 VV/ BREAK / R OF .003" TO .0005"	
UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.	
DO NOT SCALE PRINT	

DRAWN V.SHELBY	DATE 7/15/13
CHECKED MCCORMICK	DATE 7/15/13
ENG APPR. T.KUHN	DATE 7/15/13
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TITLE			
ATTENUATOR, SMA-m/f, DC-18GHz, 2W			
SIZE C	CAGE CODE 3HT76	DRAWING NUMBER 2082-6418-dB-CRYO	REV H
SCALE	PLATED AREA SQ. IN	SHEET 1 OF 1	