

**SPECIFICATIONS**

**ELECTRICAL**

FREQUENCY RANGE \_\_\_\_\_ DC - 18 GHz

**ATTENUATION ACCURACY**

0 - 6 dB \_\_\_\_\_ ±0.30 dB  
 7 - 20 dB \_\_\_\_\_ ±0.50 dB  
 21 - 30 dB \_\_\_\_\_ ±0.75 dB

**VSWR**

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

INPUT POWER \_\_\_\_\_ 2 WATTS  
 DERATES LINEARLY FROM 100% @ +25°C TO 10% @ 125°C

PEAK POWER \_\_\_\_\_ 500 WATTS  
 (5µSec PULSE WIDTH, 0.01% DUTY CYCLE)

IMPEDANCE \_\_\_\_\_ 50 OHMS

OPERATING TEMP RANGE \_\_\_\_\_ 4 KELVIN TO +125°C

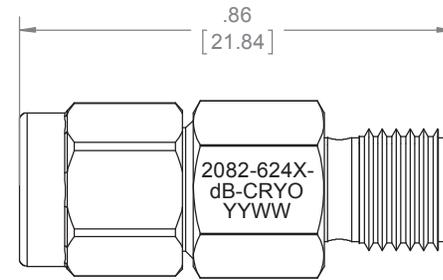
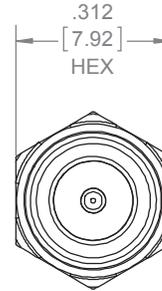
**MECHANICAL**

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

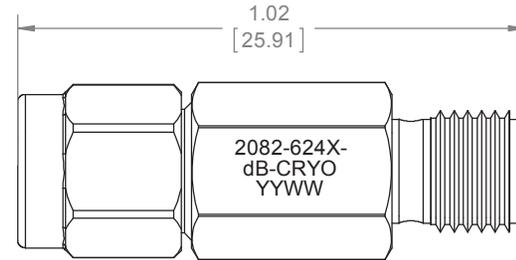
**MARKING**

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.

PART NUMBER	dB VALUES
2082-6240-dB-CRYO	00 THRU 03
2082-6241-dB-CRYO	04 THRU 06
2082-6242-dB-CRYO	07 THRU 10
2082-6243-dB-CRYO	11 THRU 20
2082-6244-dB-CRYO	25 & 30



**00 THRU 12 dB**



**13 THRU 30 dB**

REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
B	REDRAWN IN SOLIDWORKS	14-294	8/22/14	T.KUHN
C	REVISED DATE CODE	15-202	6/25/15	T.KUHN

QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
X	2082-624X-dB-CRYO	ATTENUATOR, SMA-m/f, DC-18 GHz, 2W	
1	TA-2082-6200-dBAU	ASSEMBLY, ATTENUATOR, SMA-m/f, DC-18 GHz, 2W, UNMARKED	1

DRAWING PRACTICES PER ANSI-Y-14.5 MIL-STD-100 & 1000  
 DIMENSIONS ARE IN INCHES AND APPLY BEFORE / AFTER PROCESSING  
 SURFACE ROUGHNESS  $\sqrt{63}$  µINCHES  
 FINISH:   
 SEE NOTE  
 MATERIAL:   
 SEE NOTE  
 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.R.  
 DO NOT SCALE PRINT

DRAWN DATE  
 MCCORMICK 8/21/14  
 CHECKED DATE  
 MCCORMICK 8/21/14  
 ENG. APPR. DATE  
 T.KUHN 8/21/14

Phone: 603-222-2256 Fax: 603-222-2259  
 150 Dow Street, Manchester, NH 03101  
 TITLE  
**ATTENUATOR, SMA-m/f, DC-18 GHz, 2W**

SIZE B	CAGE CODE 3HT76	DRAWING NUMBER 2082-624X-dB-CRYO	REV C
SCALE	PLATED AREA SQ. IN	SHEET 1 OF 1	

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