

ELECTRICAL

SPECIFICATIONS

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

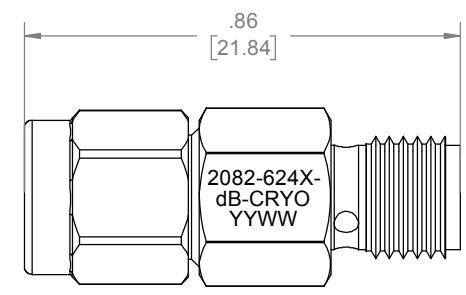
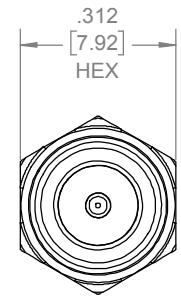
PEAK POWER \_\_\_\_\_ 500 WATTS  
(5µSec PULSE WIDTH, 0.01% DUTY CYCLE)

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

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



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
D	CHANGED ASSEMBLY IN BOM	17-057	4/27/17	T.KUHN

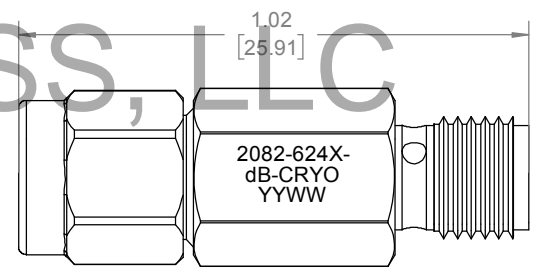


**00 THRU 12 dB**

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)



**13 THRU 30 dB**

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

QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
X	2082-624X-dB-CRYO	ATTENUATOR, SMA-m/f, DC-18 GHz, 2W	
1	TA-2082-6200-dBAU-CRYO	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  $\mu$ INCHES **63**

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 D
SCALE	PLATED AREA SQ. IN	SHEET 1 OF 1	