

**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

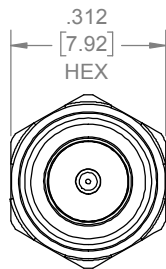
DC - 4 GHz	1.15:1 MAX
4 - 12.4 GHz	1.25:1 MAX
12.4 - 18 GHz	1.35:1 MAX

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

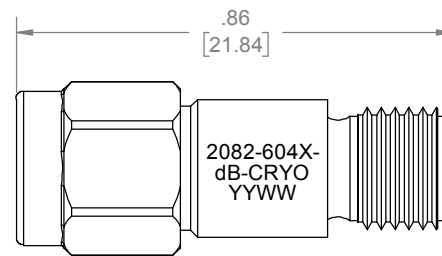
PEAK POWER \_\_\_\_\_ 500 WATTS  
(5µSec PULSE WIDTH, 0.1% DUTY CYCLE)

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

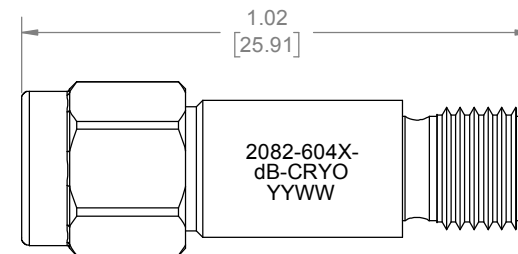
OPERATING TEMP RANGE \_\_\_\_\_ 4 KELVIN TO +125°C  
150° STORAGE



REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
C	UPDATE FORMAT; ADDED MARKING	15-329	11/11/15	T.KUHN
D	DUTY CYCLE WAS .01%	16-036	2/19/16	T.KUHN
E	CHANGED ASSY # IN BOM	17-063	5/2/17	T.KUHN
F	ADDED RoHS STATEMENT	17-096	6/14/16	T.KUHN



**00 THRU 12 dB**



**13 THRU 40 dB**

**MECHANICAL**

CONNECTOR BODIES \_\_\_\_\_ PASSIVATED STAINLESS STEEL

CENTER CONDUCTORS \_\_\_\_\_ GOLD PLATED BERYLLIUM COPPER

INSULATORS \_\_\_\_\_ PTFE (TEFLON) IAW ASTM-D1710

RESISTIVE ELEMENT \_\_\_\_\_ THIN FILM HYBRID ON 99.6% ALUMINA SUBSTRATE

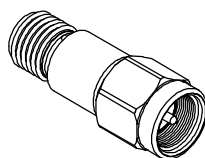
RoHS COMPLIANT DEVICE

CONNECTOR INTERFACES IAW MIL-STD-348 & MIL-PRF-39012

MATERIALS, FINISHES AND ENVIROMENTAL CAPABILITIES DESIGNED TO MEET MIL-DTL-3933

**MARKING**

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



dB VALUES 2082:	1 dB STEPS, 18GHz 2082:
-00/-03 = 0 THRU 3dB	-6040-00 THRU 03
-04/-06 = 4 THRU 6dB	-6041-04 THRU 06
-07/-10 = 7 THRU 10dB	-6042-07 THRU 10
-11/-12 = 11 AND 12dB	-6043 AND 12
-13/-20 = 13 THRU 20dB	-6043-13 THRU 20
-25 & -30dB	6044-25 & -30

DRAWING PRACTICES PER ANSI-Y-14.5 MIL-STD-100 & 1000	UNLESS OTHERWISE SPECIFIED TOLERANCES IN:
DIMENSIONS ARE IN INCHES AND APPLY BEFORE / AFTER PROCESSING	DECIMALS INCH [MM]
SURFACE ROUGHNESS $\mu$ INCHES $\sqrt{63}$	.X" .05" [1.27]
FINISH:	.XX" .03" [.76]
SEE NOTES	.XXX" .010" [.25]
MATERIAL:	ANGLES $\pm 0^{\circ}30'$
SEE NOTES	REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005"
NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.	UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.
	DO NOT SCALE PRINT
INTERPRET IAW ANSI Y14.5-1982	

QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
X	2082-604X-dB-CRYO	ATTENUATOR, SMA-m/f, DC-18 GHz, 2W, CRYOGENIC	
1	TA-2082-6000-dBAU-CRYO	ASSEMBLY, ATTENUATOR, SMA-m/f, DC-18 GHz, 2W, UNMARKED	1

DRAWN	DATE
V.SHELBY	2/20/13
CHECKED	DATE
T.KUHN	2/20/13
ENG. APPR.	DATE
T.KUHN	2/20/13

Phone: 603-222-2256 Fax: 603-222-2259  
150 Dow Street, Manchester, NH 03101

TITLE

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

SIZE	CAGE CODE	DRAWING NUMBER	REV
B	3HT76	2082-604X-dB-CRYO	F
SCALE	PLATED AREA SQ. IN	SHEET 1 OF 1	

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