

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

IMPEDANCE

_____ 50 OHMS

OPERATING TEMP RANGE

_____ 4 KELVIN TO +125°C
150° STORAGE

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

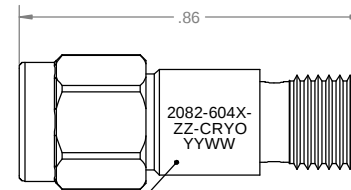
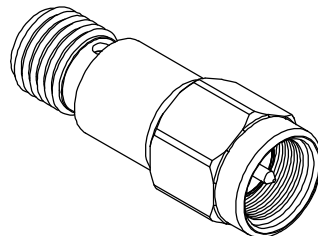
CONNECTOR INTERFACES IAW MIL-STD-348 & MIL-PRF-39012

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

MARKING

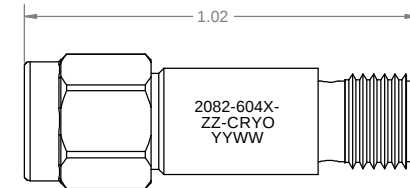
PART LOOKS LIKE PRODUCT IMAGE ABOVE.
PART MARKING ORIENTATION AND FORMAT AS SHOWN.
CHANGE X TO THE ONE DIGIT VALUE ON WORK ORDER.
REPLACE "ZZ" AND "XX" WITH APPROPRIATE TWO DIGIT dB VALUE.
MARKING TO BE AS LARGE AS POSSIBLE, CLEAR, READABLE.
YYWW EQUALS DATE CODE.

dB VALUES 2082:	1dB 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	-6043-11 AND 12
-13/-20 = 13 THRU 20dB	-6043-13 THRU 20
-25 & -30dB	6044-25 & -30



MARKING AREA
SEE NOTE

00 THRU 12 dB



13 THRU 30 dB

0 dB	1-30 dB	PART NUMBER	DESCRIPTION	ITEM NO.
X	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	-	TA-2082-6040-00U	ASSEMBLY, ATTENUATOR, SMA-m/f, DC-18 GHz, 2W, UNMARKED, 0 dB	

DRAWING PRACTICES PER ANSI-Y-14.5 MIL-STD-129 & 1302	UNLESS OTHERWISE SPECIFIED TOLERANCES IN: DECIMALS INCH (MM) .X" .05" [1.27] .XX" .03" [.76] .XXX" .010" [.25]	DRAWN V.SHELBY DATE 2/20/13	DATE 2/20/13
DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	ANGLES ±0°30' REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005" UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.	CHECKED T.KUHN DATE 2/20/13	DATE 2/20/13
SURFACE ROUGHNESS INCHES 63 ✓	DO NOT SCALE PRINT	ENG APPR. T.KUHN DATE 2/20/13	DATE 2/20/13
FINISH: SEE NOTES		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.	
MATERIAL: SEE NOTES			
NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.			
INTERPRET IAW ANSI Y14.5-1982			

DATE 2/20/13	DATE 2/20/13
DATE 2/20/13	DATE 2/20/13



Phone: 603-222-2256 Fax: 603-222-2259
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ATTENUATOR, SMA-m/f, DC-18GHz, 2W,
CRYOGENIC

SIZE	CAGE CODE	DRAWING NUMBER	REV
C	3HT76	2082-604X-dB-CRYO	H
SCALE	PLATED AREA 50 IN	SHEET 1 OF 1	

REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
E	CHANGED ASSY # IN BOM	17-063	5/2/17	T.KUHN
F	ADDED RoHS STATEMENT	17-096	6/14/16	T.KUHN
G	MODIFIED BOM	18-141	9/20/18	T.KUHN
H	REMOVED PEAK PWR, ROHS	23-144	11/29/23	DEL