



REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
A	ADDED TABLE	13-250	10/18/13	T.KUHN
B	REVISED MARKING, UPDATED FORMAT	17-090	6/12/17	T.KUHN

**SPECIFICATIONS**

**ELECTRICAL**  
 FREQUENCY RANGE \_\_\_\_\_ DC TO 18 GHz

**ATTENUATION**  
 0-6 dB \_\_\_\_\_ ±0.3 dB  
 7-10, 20 dB \_\_\_\_\_ ±0.5 dB  
 11-19, 21-30 dB \_\_\_\_\_ ±0.75 dB  
 40 dB \_\_\_\_\_ ±1.0 dB  
 50, 60 dB \_\_\_\_\_ ±2.0 dB  
 (AVAILABLE IN 1/2 dB VALUES 0.5 - 10.5 dB)

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

**POWER (AVG)** \_\_\_\_\_ 2 WATTS 0.5 dB AND ABOVE  
 50 WATTS FOR 0 dB UNIT  
 DERATED LINEARLY FROM 100% @+25°C TO 10% @ +125°C

**POWER (PEAK)** \_\_\_\_\_ 500 WATTS  
 5 μS PULSE W, 0.05% DUTY CYCLE

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

**MECHANICAL**  
 OPERATING TEMP RANGE \_\_\_\_\_ 4 KELVIN TO +125°C  
 1.24 LENGTH / WEIGHT MAX \_\_\_\_\_ 0.40oz. (11.3g)  
 1.80 LENGTH / WEIGHT MAX \_\_\_\_\_ 0.60oz. (15.3g)

**MATERIAL**  
 OUTER CONDUCTOR \_\_\_\_\_ STAINLESS STEEL NON  
 MAGNETIC, PASSIVATED FINISH.

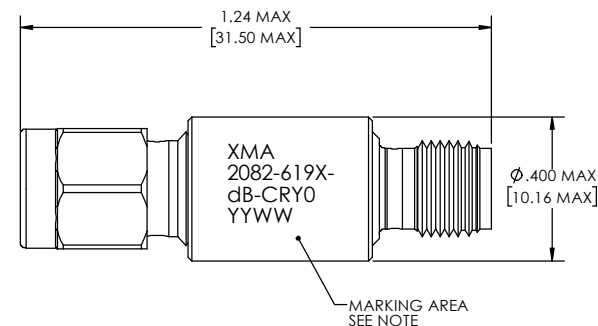
CENTER CONDUCTOR \_\_\_\_\_ BERYLLIUM COPPER, GOLD PLATED  
 FINISH.

DIELECTRIC \_\_\_\_\_ TEFLON.

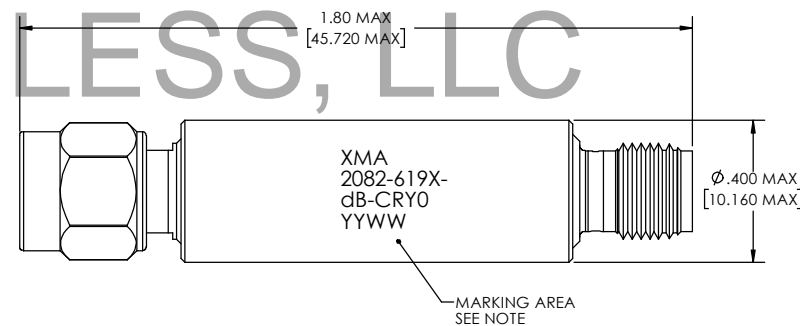
MATERIALS & FINISHES TYPICALLY PER MIL-PRF-39012

**MARKING**  
 PART LOOKS LIKE PRODUCT IMAGE ABOVE.  
 PART MARKING ORIENTATION AND FORMAT AS SHOWN.  
 MARKING TO BE AS LARGE AS POSSIBLE, CLEAR, READABLE, AND A  
 BLACK COLOR.  
 REPLACE "X-dB" WITH PART NUMBER SPECIFIED ON WORK ORDER.

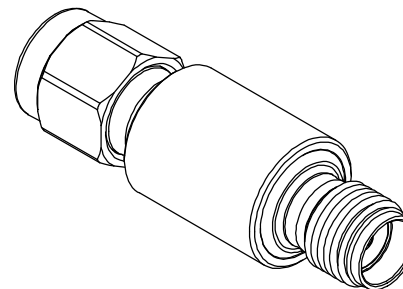
PLUG JACK	dB VALUE	PLUG JACK	dB VALUE
2082-6191-00-CRYO	0.0	2082-6194-12-CRYO	12.0
2082-6191-01-CRYO	1.0	2082-6194-13-CRYO	13.0
2082-6191-02-CRYO	2.0	2082-6194-14-CRYO	14.0
2082-6191-02-CRYO	2.0	2082-6194-15-CRYO	15.0
2082-6191-03-CRYO	3.0	2082-6194-16-CRYO	16.0
2082-6192-04-CRYO	4.0	2082-6194-17-CRYO	17.0
2082-6192-05-CRYO	5.0	2082-6194-18-CRYO	18.0
2082-6192-06-CRYO	6.0	2082-6194-19-CRYO	19.0
2082-6192-07-CRYO	7.0	2082-6194-20-CRYO	20.0
2082-6192-08-CRYO	8.0	2082-6195-30-CRYO	30.0
2082-6192-09-CRYO	9.0	2082-6196-40-CRYO	40.0
2082-6192-10-CRYO	10.0	2082-6196-50-CRYO	50.0
2082-6192-11-CRYO	11.0	2082-6196-60-CRYO	60.0



**0 THRU 30 dB**



**40, 50, & 60 dB**



QTY.	PART NUMBER	DESCRIPTION	ITEM NO.
X	2082-619X-dB	ATTENUATOR, SMA-m/f, DC-18GHz, 2W	
1	TA-2082-619X-dBU-CRYO	ASSY, ATTENUATOR, SMA-m/f, DC-18GHz, 2W, UNMARKED	1

DRAWING PRACTICES PER ANSI Y14.5 DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING SURFACE ROUGHNESS FINISH: SEE NOTES MATERIAL: SEE NOTES NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION. INTERPRET LAW ANSI Y14.5-1982	UNLESS OTHERWISE SPECIFIED TOLERANCES IN: DECIMALS INCH (MM) .X" .05" [1.27] .XX" .03" [.76] .XXX" .010" [.25]	DRAWN DATE V.SHELBY 8/28/13 CHECKED DATE T.KUHN 8/28/13 ENG APPR. DATE T.KUHN 8/28/13
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	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.

ATTENUATOR, SMA-m/f, DC-18GHz, 2W			
SIZE C	CAGE CODE 3HT76	DRAWING NUMBER 2082-619X-dB-CRYO	REV B
SCALE		SHEET 1 OF 1	