

5

4

3

2

1

### SPECIFICATIONS

#### ELECTRICAL

FREQUENCY RANGE	DC TO 6 or 18 GHz	
ATTENUATION (FREQ. IN GHz)	DC-12.4	12.4-18
0-6 dB	±0.3 dB	±0.5 dB
7-12, 15 & 20 dB	±0.5 dB	±0.75 dB
30 & 40 dB	±0.75 dB	±1.00 dB
VSWR(MAX)	DC - 4 GHz	1.15:1
	4 - 12.4 GHz	1.25:1
	12.4-18 GHz	1.40:1
POWER	10 WATTS (AVG)*	
	Derates Linearly from +25°C to 10 % at +125°C	
POWER, PEAK	500 WATTS**	
	** 5µSecond PULSE WIDTH, 0.2 % DUTY CYCLE	
IMPEDANCE:	50 OHMS	
OPERATING TEMP RANGE	-65 TO +125°	

ENVIRONMENTAL CAPABILITIES PER MIL-DTL-3933A/16 TYPE DEVICES

#### Materials


Outer Conductor: Passivated Stainless Steel IAW ASTM A484 & A582, Class 303  
 Heat Sink: Black Anodized Aluminum  
 Center Conductor: Gold Plated (ASTM-B488/MIL-PRF-39012) Beryllium Copper per ASTM B196 & B197  
 Dielectric: Teflon (PTFE) per ASTM D1710.  
 Attenuator Card: Proprietary Thin film, Passivation Protected, on Aluminum Nitride Ceramic Hybrid  
 Weight: 0.86 oz./24.4 grams Max.

#### Ordering Information:

DC - 6 GHz Unit Order Model 2082-6504-DB replacing "DB" with dB needed as two digits (for Atten & VSWR limited to 6 GHz specs)  
 DC - 18 GHz Unit Order Model 2082-6502-DB replacing "DB" with dB needed as two digits  
 Example - 18 GHz, 3 dB is 2082-6502-03  
 6 GHz, 20 dB is 2082-6504-20  
 Other connectors available as are male - male (replace 2082 with 2081) and female to female (replace 2082 with 2080).  
 Ask about between series "Adaptenuators".

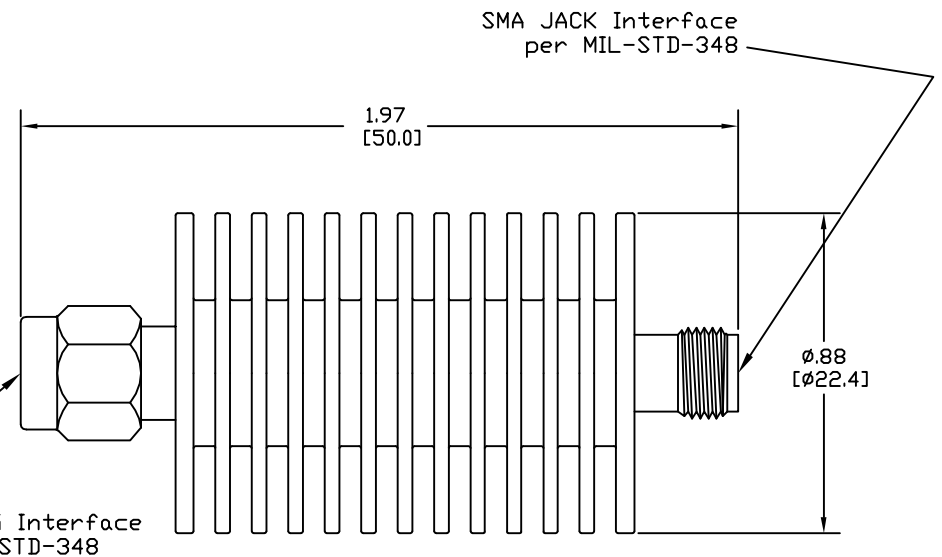
PRELIMINARY RELEASE

NOTE:  
THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.




INTERPRET IAW ANSI Y14.5-1982

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
G	Revised to include all same design/different FQs	01/09/2012	D. Saunders



NUMBER OF HEATSINK FINS MAY VARY WITH LOTS

DRAWING PRACTICES PER ANSI-Y-14.5 MIL-STD-100 & 1000 DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	UNLESS OTHERWISE SPECIFIED TOLERANCES IN:		DRAWN	DATE
	DECIMALS	INCH	DWG	DATE
SURFACE FINISH: 	.X"		D. Saunders	01/09/2012
	.XX"	.050"	CHECKED	
FINISH: SEE NOTES	.XXX"	.03	ENGINEER APPR.	DATE
	.XXXX"	[.76]		
MATERIAL: SEE NOTES	UNLESS OTHERWISE NOTED		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.	
	DIAS CONCENTRIC <.003 T.I.R.			

**XMA** Powered by: Omni Spectra®  
 Phone: 603-222-2256 Fax: 603-222-2259  
 150 Dow Street, Manchester, NH 03101

TITLE: SMA FIXED COAXIAL ATTENUATOR

SIZE	CAGE CODE	DRAWING NUMBER
B	3HT76	2082-650X-DB
SCALE	3:1	SHEET 1 OF 1

5

4

3

2

1

BCS1