

ELECTRICAL SPECIFICATIONS

Frequency Range: DC - 12.4 GHz

ATTENUATION: SEE TABLE

ATTENUATION DEVIATION TOLERANCE: SEE TABLE

VSWR: (MAX.): (1-40 Db) 1.15:1 (DC - 4 GHz)
1.25:1 (4 - 12.4 GHz)

IMPEDANCE: 50 OHMS

TEMPERATURE RANGE (°C) -65 TO +125 OPERATING
+150° STORAGE

POWER (AVG) 5 WATTS**
POWER (PEAK) (<5 m SEC. PW, <0.2% DUTY CYCLE) 500 WATTS

**POWER DERATES LINEARLY FROM +25°C TO <10 % @+125°C

MECHANICAL SPECIFICATIONS

MATERIALS (ALL PER MIL-PRF-39012 & MIL-DTL-3933)

CENTER CONDUCTOR: BERYLLIUM COPPER PER QQ-C-530, ASTM B196,
ASTM-B197 ALLOYS C17200 OR C17300 PER MIL-PRF-39012.

OUTER CONDUCTOR: STAINLESS STEEL, CORROSION RESISTANT PER ASTM
A484 & A582, CLASS 303, COND. A.

DIELECTRIC: TEFLON PER ASTM D1710.

HOUSING: ALUMINUM (May be one of several QQ-A-XXX or ASTM standards)

RESISTOR SUBSTRATE AIN OR ALUMINUM OXIDE.

FINISH (COMPLY WITH MIL-DTL-3933):

CENTER CONDUCTOR: GOLD PLATED PER MIL-PRF-39012.

OUTER CONDUCTOR: PASSIVATED PER ASTM A380 AND MIL-PRF-39012.

HOUSING: BLACK ANODIZE.

RESISTOR: PROPRIETARY THIN FILM HYBRID WITH PROTECTIVE SiO COATING.

FOR UNMARKED UNITS OR FOR CUSTOM MARKING CONTACT FACTORY FOR PART
NUMBER / SUFFIX TO APPEND TO MODEL NUMBER

**ENVIRONMENTAL CAPABILITIES AND DESIGN COMPLY WITH MIL-DTL-3933 FOR
CLASS IV DEVICES (SOME PARAMETERS COMPLY WITH TYPE III OR BETTER).**

PRODUCTION
RELEASE

NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION
INTERPRET IN ACCORDANCE WITH
ANSI Y14.5-1995

REVISIONS

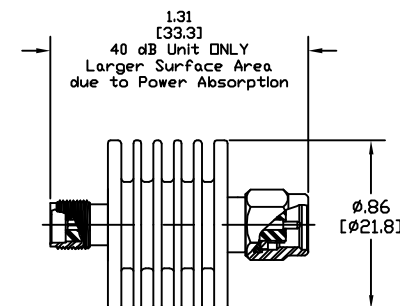
REV	DESCRIPTION	DATE	APPROVED
E	REVISED, REDRAWN AND UPDATED FORMAT	05/19/11	D.S.S

DASH NO.	NOM. DB	MAX. DEV.	DASH NO.	NOM. DB	MAX. DEV.
-01	1	±.3	-10	10	±.5
-02	2	±.3	-11	11	±.5
-03	3	±.3	-12	12	±.5
-04	4	±.3	-15	15	±.5
-05	5	±.3	-20	20	±.5
-06	6	±.3	-30	30	±.75
-07	7	±.5	-40	40	±1.25
-08	8	±.5			
-09	9	±.5			

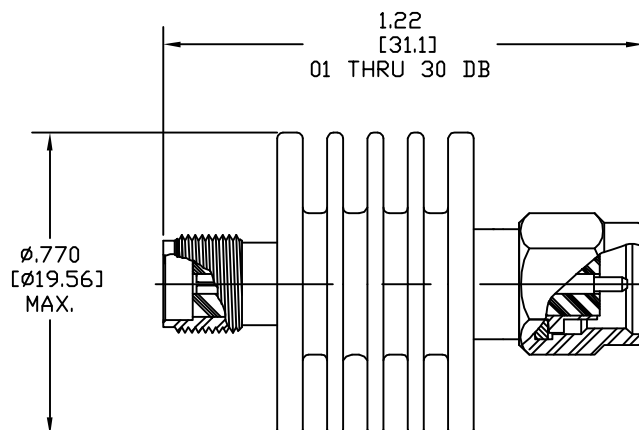
OTHER 5 WATT SMA TYPES AVAILABLE

MAX. FREQ. ORDER P/N DB VALUES AVAIL.

2.5 GHz	2082-6522-DB	1-50 DB STD
4 GHz	2082-6520-DB	1-50 DB STD
6 GHz	2082-6526-DB	1-50 DB STD
18 GHz	2082-6524-DB	1-40 DB STD



NOT TO SCALE



DRAWING PRACTICES PER ANSI Y14.5 MIL-STD-100 & 1000	UNLESS OTHERWISE SPECIFIED TOLERANCES IN:	DRAWN T.M.AIN	DATE 5/19/2011
3DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	DECIMALS INCH MM	CHECKED	DATE
SURFACE ROUGHNESS 63	.XX" .03" [.76]	ENG. D. SAUNDERS	5/19/2011
FINISH	.XXX" .010" [.25]	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF XMA CORP. OR OMNISPECTRA 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.	
SEE NOTES	.XXXX" .005" [.127]		
MATERIAL	.XXXX" .0005" [.013]		
SEE NOTES	ANGLES ±0°30'		
	REMOVE ALL BURRS/SHARPEN BREAK / R OF .003" TO .005"		
	DIA. CONCENTRIC <.003 T.I.R.		

DATE 5/19/2011	DATE 5/19/2011
DATE 5/19/2011	DATE 5/19/2011

XMA Omni Spectra [®]	
Phone: 603-222-2256 Fax: 603-222-2259 150 Dow Street, Manchester, NH 03101	
TITLE 5 Watt SMA Attenuator Air Cooled, up to 12.4 GHz	
SIZE C	CAGE CODE 3HT76
SCALE 4:1	DWG NO. 2082-6510-DB
PLATING AREA SQUARE INCHES	XXX
SHEET 1 OF 1	