

PRODUCTION
RELEASE

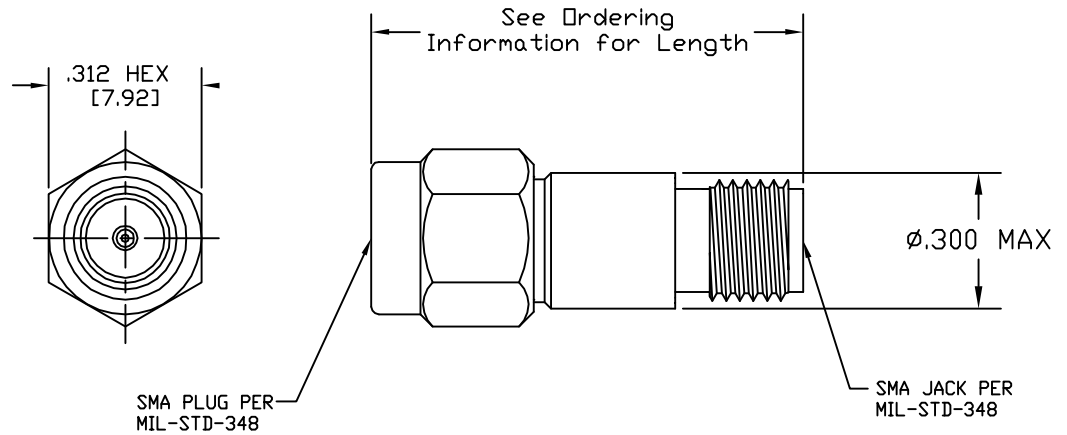
NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION
INTERPRET IN ACCORDANCE WITH Y14.5-1992

REVISIONS		
REV	DESCRIPTION	APPROVED
D	Combined 1/2 dB and 12.4 GHz into single OD	01/14/2010 D. Saunders

SPECIFICATIONS

ELECTRICAL

FREQUENCY RANGE	2082-613X-dB	dc - 18 GHz
	2082-603X-dB	dc - 12.4 GHz
	2082-7130-dB	dc - 6 GHz
ATTENUATION ACCURACY	0.5-6.5 +/- 0.30	
	6.5-12.5 +/- 0.50 (0.30 for -7130)	
VSWR (MAX for Part Number Freq. Range)		
DC - 4 GHz		1.15:1 MAX
4 - 12.4 GHz		1.25:1 MAX
12.4 - 18 GHz		1.35:1 MAX.
POWER (AVE):	2 WATTS	
	DERATE LINEARLY FROM 25°C to 10% @ 125°	
POWER (PEAK):	500 WATTS	
	At 5µ Second Pulse Width & 0.1% Duty Cycle	
IMPEDANCE	50 OHMS	
OPERATING TEMP RANGE	-65°C TO +125°C	



MECHANICAL

SMA CONNECTOR	
HOUSING	PASSIVATED STAINLESS STEEL
SMA CONNECTOR	
CENTER CONTACT	GOLD PLATED BERYLLIUM COPPER
RESISTIVE ELEMENT	THIN FILM HYBRID ON 99.6% ALUMINA SUBSTRATE

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

Ordering Information

	1 dB Steps to 18 GHz	1 dB Steps to 12.4 GHz	1 dB Steps to 6 GHz	Length
for dB	2082:	2082:	2082:	Inch mm
0.5 dB/ 3.5 dB	-6130-00/-03	-6030-00/-03	-7130-00/03	0.86 [21.8]
4.5 dB/ 6.5 dB	-6131-04/-06	-6031-04/-06	-7130-04/06	0.86 [21.8]
7.5 dB/ 10.5 dB	-6133-07/-10	-6032-07/-10	-7130-07/10	0.86 [21.8]
11.5dB & -12.5 dB	-6133-11 & -12	-6033-11 & -12	-7130-11 & -12	0.86 [21.8]

Examples:

2082-6030-00 = 0.5 dB, 12.5 GHz
2082-6132-10 = 10.5 dB, 18 GHz
2082-7130-12 = 12.5 dB, 6 GHz

DRAWING PRACTICES PER ASME Y-14.5
MIL-STD-100 & 1000

3 DIMENSIONS ARE IN INCHES AND
APPLY BEFORE/ AFTER PROCESSING

SURFACE
FINISH

SEE NOTES

MATERIAL:
SEE NOTES

UNLESS OTHERWISE SPECIFIED
TOLERANCES IN

DECIMALS INCH MM
.XX .03 [.76]
.XXX .010 [.25]
.XXXX .005 [.127]
.XXXXX .0005 [.013]

ANGLES 30°/30°

REMOVE ALL BURRS/SHARP V
BREAK I R OF .203 TO .203

UNLESS OTHERWISE NOTED
DIAS CONCENTRIC <.003 T.I.R.

DRAWN
D. SAUNDERS

CHECKED
D. SAUNDERS

DATE
01/14/2010

DATE
01/14/2010

THESE DRAWINGS AND SPECIFICATIONS ARE
THE PROPERTY OF XMA CORP. / OMNI
SPECTRA AND SHALL NOT BE REPRODUCED,
COPIED, MODIFIED, RE-MADE OR IN ANY
AS A BASIS FOR THE DESIGN, MANUFACTURE
OR SALE OF OTHER ITEMS WITHOUT THE
EXPRESS WRITTEN PERMISSION OF XMA
CORP. CUSTOMERS AND VENDORS MAY
COPY FOR INTERNAL REVIEW USE AS NEEDED

WWW.XMACORP.COM Sales@XMACORP.COM

XMA Omni Spectra®
XMA Corp. 150 Dow St. Manchester, NH 03045 (603) 222-2256 fax 222-2259

TITLE
SMA Fixed Attenuator
HALF DB STEPS

SIZE C CAGE CODE 3HT76 DWG NO. 2082-613X-dB

SCALE 5:1 PLATING AREA XXX SHEET 1 OF 1