

Specifications

Electrical

Frequency Range	2082-624X-dB	DC - 18 GHz
Frequency Range	2082-622X-dB	DC - 12.4 GHz
Frequency Range	2082-621X-dB	DC - 4 GHz
Attenuation Accuracy	0 to 6.0 dB	±0.30 dB
	6.5 to 20 dB	±0.50 dB
	21-30 dB	±0.75 dB
	40 dB	±1.00 dB
VSWR (MAX. For Model Freq. Range)		
	DC - 4 GHz	1.15:1
	4 - 12.4 GHz	1.25:1
	12.4 - 18 GHz	1.35:1
Average/RMS Power Max.	2 Watts	
	Derate Power Linearly from 100 % @ +25 to 10 % @ +125	
Peak Power Max.		500 Watts
	@ 5 µSeconds Pulse Width & 0.10 % Duty Cycle	
	A Longer Pulse Width Requires Duty Cycle to decrease 2:1 for Thermal Time constant	
Impedance		50 Ohms
Operating Temperature (°C)		-65 / +125

Mechanical / Environmental

SMA Connectors Comply to MIL-STD-348 & MIL-PRF-39012
Attenuators meet Environmental Requirements of MIL-DTL-3933
Housings are Passivated Type 303 Stainless Steel
Contacts are Gold Plated BeCu
Dielectrics are Teflon (PTFE) IAW ASTM-D1710
Resistive Hybrid is a Protected Thin Film on 99.6 % Aluminum Oxide
Ceramic Microcircuit

Ordering Information:

Examples:

2082-6242-10 = 10 dB, 18 GHz, 0.86" long
2082-6220-01 = 1 dB, 12.4 GHz, 0.86" long
2082-6213-12 = 12 dB, 6 GHz, 0.86" long
2082-6213-13 = 13 dB, 6 GHz, 1.02" long

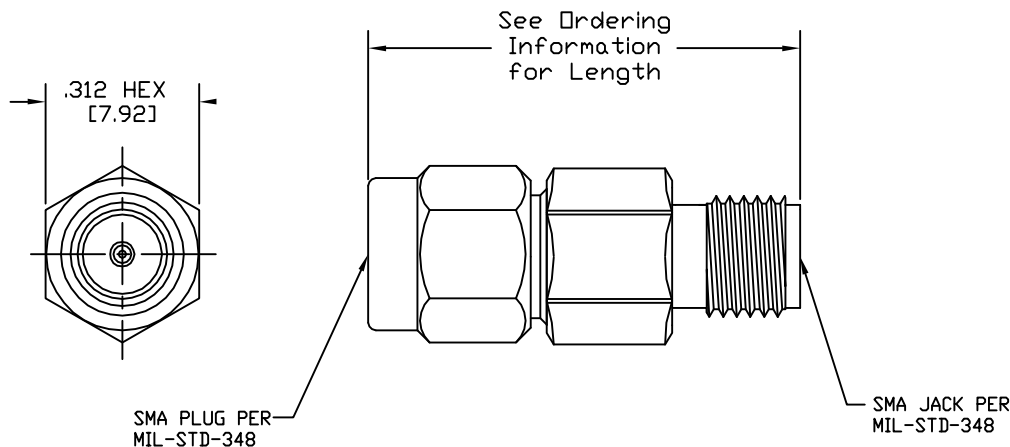
Standard configuration is Male to Female SMA
for Male to Male and Female to Female a larger size is available -
contact factory for part number guidance.
2080-61YY-dB Female to female and 2081-61YY-dB male to Male

PRODUCTION
RELEASE

NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION.
INTERPRET IAW ANSI Y14.5-1992

REVISIONS

REV	DESCRIPTION	APPROVED
G	Combined 18, 12.4 & 6 GHz into single OD	05/15/2011 D. Saunders



Ordering Information

dB Values	1 dB Steps, 18 GHz	1 dB Steps 12.4 GHz	1 dB Steps 4 GHz	Length
	2082:	2082:	2082:	Inch mm
-00/-03 = 0 / 3 dB	-6240-00/-03	-6220-00 thru -03	-6210-00 thru -03	0.86 [21.8]
-04/-06 = 4 / 6 dB	-6241-04/-06	-6221-04 thru -06	-6211-04 thru -06	0.86 [21.8]
-07/-10 = 7 / 10 dB	-6242-07/-10	-6222-07 thru -10	-6212-07 thru 10	0.86 [21.8]
-11/-12 dB	-6243-11 & -12	-6223-11 & -12	-6213-11 thru -12	0.86 [21.8]
-13 / -20 dB	-6243-13 thru -20	-6223-13 thru -20	-6213-13 thru / -20	1.02 [25.9]
-25, -30 and -40 dB	-6244-25, -30 or -40	-6224-25, -30 & -40	-6214-25, -30, & -40	1.02 [25.9]
-50 dB	not available	not available	-6225-50 dB	1.02 [25.9]

For Half DB Steps (0.5 dB, 1.5 dB, etc.) to 18 GHz, Order Model Number
2082-623Y-dB
Available in half dB steps from 0.05 thru 12.5 dB to 18 GHz Standard
(Contact Factory for lower Freq. Ranges)
2082-6230-00 = 0.5 dB Nominally
2082-6230-12 = 12.5 dB Nominally.

DRAWING PRACTICES PER ANSI Y14.5-1992 MIL-STD-100 & 1000	UNLESS OTHERWISE SPECIFIED TOLERANCES IN: DECIMALS INCH MM .XX" .05" [1.3] .XXX" .030" [7.6] .XXXX" .020" [5.1]	DRAWN D. SAUNDERS DATE 01/14/2010
DIMENSIONS ARE IN INCHES AND APPLY BEFORE/ AFTER PROCESSING	ANGLES	CHECKED D. SAUNDERS DATE 01/14/2010
SURFACE ROUGHNESS	UNLESS OTHERWISE NOTED: DIAS CONCENTRIC <.003 T.I.R.	DATE 01/14/2010
FINISH		
SEE NOTES		
MATERIAL		
SEE NOTES		

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF XMA CORP. / OMNI SPECTRA AND SHALL NOT BE REPRODUCED, COPIED, MODIFIED, RE-MADE OR IN PART, 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	DATE 01/14/2010
--	--------------------

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 Full Hex Body (See Also Round/Hex 6400 Series)	
SIZE C	CAGE CODE 3HT76
SCALE 5 : 1	DWG NO. 2082-624X-dB
PLATING AREA SOLDER INCHES	XXX
SHEET 1 OF 1	