

**ELECTRICAL**

FREQUENCY RANGE \_\_\_\_\_ DC - 18 GHz

ATTENUATION ACCURACY

0 - 6 dB	±0.30 dB
7 - 20 dB	±0.50 dB
21 - 30 dB	±0.75 dB

VSWR

DC - 4 GHz	1.15:1 MAX
4 - 12.4 GHz	1.25:1 MAX
12.4 - 18 GHz	1.35:1 MAX

INPUT POWER \_\_\_\_\_ 2 WATTS  
DERATES LINEARLY FROM 100% @ +25°C TO 10% @ 125°C

PEAK POWER \_\_\_\_\_ 500 WATTS  
(5µSec PULSE WIDTH, 0.1% DUTY CYCLE)

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

OPERATING TEMP RANGE \_\_\_\_\_ -65°C TO +125°C

**MECHANICAL**

CONNECTOR BODIES	PASSIVATED STAINLESS STEEL
CENTER CONDUCTORS	GOLD PLATED BERYLLIUM COPPER
INSULATORS	PTFE (TEFLON) IAW ASTM-D1710
RESISTIVE ELEMENT	THIN FILM HYBRID ON 99.6% ALUMINA SUBSTRATE

RoHS COMPLIANT DEVICE

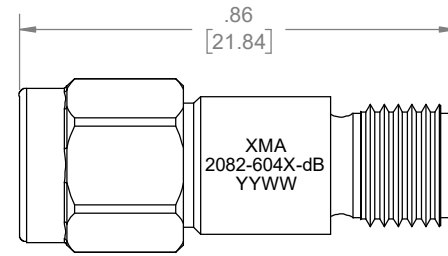
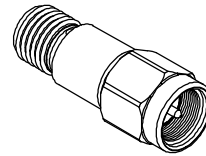
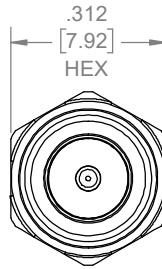
CONNECTOR INTERFACES IAW MIL-STD-348 & MIL-PRF-39012

MATERIALS, FINISHES AND ENVIROMENTAL CAPABILITIES DESIGNED TO MEET MIL-DTL-3933

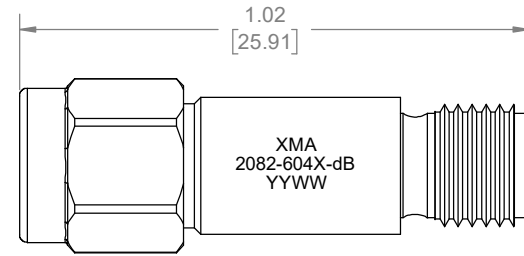
**MARKING**

PART LOOKS LIKE PRODUCT IMAGE ABOVE.  
PART MARKING ORIENTATION AND FORMAT AS SHOWN.  
CHANGE X TO THE ONE DIGIT VALUE ON WORK ORDER.  
REPLACE dB WITH APPROPRIATE TWO DIGIT dB VALUE.  
MARKING TO BE AS LARGE AS POSSIBLE, CLEAR, READABLE.  
YYWW EQUALS DATE CODE.

dB VALUES 2082:	1dB STEPS, 18GHz 2082:
-00/-03 = 0 THRU 3dB	-6040-00 THRU 03
-04/-06 = 4 THRU 6dB	-6041-04 THRU 06
-07/-10 = 7 THRU 10dB	-6042-07 THRU 10
-11/-12 = 11 AND 12dB	-6043-11 AND 12
-13/-20 = 13 THRU 20dB	-6043-13 THRU 20
-25 & -30dB	6044-25 & -30



**00 THRU 12 dB**



**13 THRU 30 dB**

REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
M	CORRECTED TITLE & MARKING	15-113	4/23/15	T.KUHN
N	DUTY CYCLE WAS .01%	16-036	2/19/16	T.KUHN
P	ADDED RoHS STATEMENT	17-096	6/14/16	T.KUHN
Q	MODIFIED BOM	18-141	9/20/18	T.KUHN

0 dB	1-30 dB	PART NUMBER	DESCRIPTION	ITEM NO.
X	X	2082-604X-dB	ATTENUATOR, SMA-m/f, DC-18 GHz, 2W	
-	1	TA-2082-6000-dBAU	ASSEMBLY, ATTENUATOR, SMA-m/f, DC-18 GHz, 2W, UNMARKED	
1	-	TA-2082-6040-00U	ASSEMBLY, ATTENUATOR, SMA-m/f, DC-18 GHz, 2W, UNMARKED, 0 dB	

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

DIMENSIONS ARE IN INCHES AND APPLY BEFORE / AFTER PROCESSING

SURFACE ROUGHNESS  $\mu$ INCHES **63**

FINISH:

SEE NOTES

MATERIAL:

SEE NOTES

NOTE:  
THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.

INTERPRET IAW ANSI Y14.5-1982

UNLESS OTHERWISE SPECIFIED TOLERANCES IN:

DECIMALS	INCH	[MM]
.X"	.05"	[1.27]
.XX"	.03"	[.76]
.XXX"	.010"	[.25]

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

DRAWN DATE  
**MCCORMICK 12/16/14**

CHECKED DATE  
**MCCORMICK 12/16/14**

ENG. APPR. DATE  
**T.KUHN 12/26/14**

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Phone: 603-222-2256 Fax: 603-222-2259  
150 Dow Street, Manchester, NH 03101

TITLE  
**ATTENUATOR, SMA-m/f, DC-18GHz, 2W**

SIZE	CAGE CODE	DRAWING NUMBER	REV
<b>B</b>	<b>3HT76</b>	<b>2082-604X-dB</b>	<b>Q</b>

SCALE PLATED AREA SQ. IN SHEET 1 OF 1