

MECHANICAL SPECIFICATIONS

MATERIALS (ALL PER MIL-PRF-39012 & MIL-DTL-39030)

INNER CONDUCTOR: BERYLLIUM COPPER PER ASTM B196 & B197.

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

DIELECTRIC: TEFLON PER ASTM D1710.

FINISH (ALL PER MIL-PRF-39012 & MIL-DTL-39030)

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

HOUSING/COUPLING NUT FINISH PER SUFFIX (REPLACING -0X IN MODEL #)

- 00 OUTER CONDUCTOR / NUT BOTH GOLD PLATED
- 02* OUTER CONDUCTOR / NUT BOTH PASSIVATED SS
- 01 OUTER CONDUCTOR GOLD PLATED BUT NUT PASSIVATED SS
- 0X-C APPENDING "-C" ADDS CHAIN ASSEMBLY, 2" - 2.5" LONG
AVAILABLE ON 2001 AND 2003 SERIES

* Exception for the 200X-6151-02, Outer is Gold Plated and Nut is Passivated

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

MEETS ALL ENVIRONMENTAL REQUIREMENTS IN MIL-DTL-39030/3

ELECTRICAL SPECIFICATIONS

Frequency Range DC - 27 GHz (See Chart, Sht. 2)

VSWR: SEE SHEET TWO

IMPEDANCE: 50 OHMS

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

POWER (AVG) 1 WATT**

POWER (PEAK) (<5 m SEC PW, <1% DUTY CYCLE) 500 WATTS

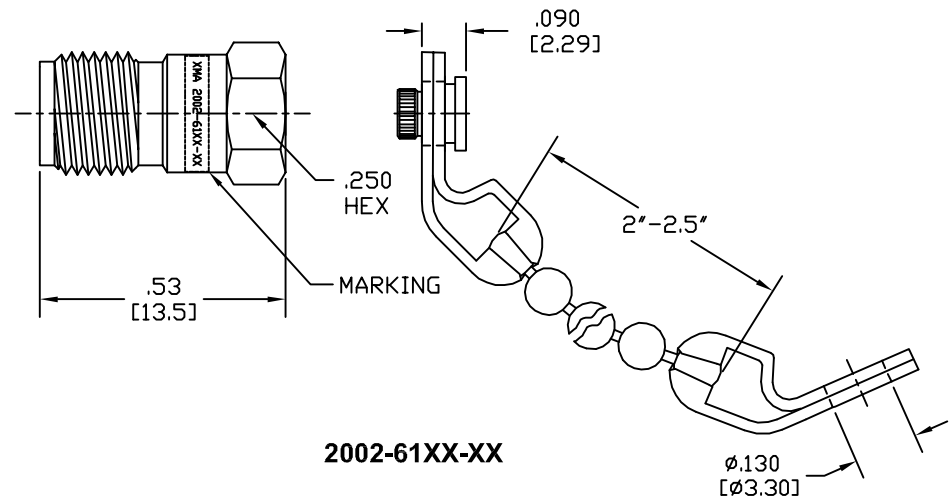
**POWER DERATES LINEARLY FROM +45°C TO <10 % @+125°C

PRODUCTION
RELEASE

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

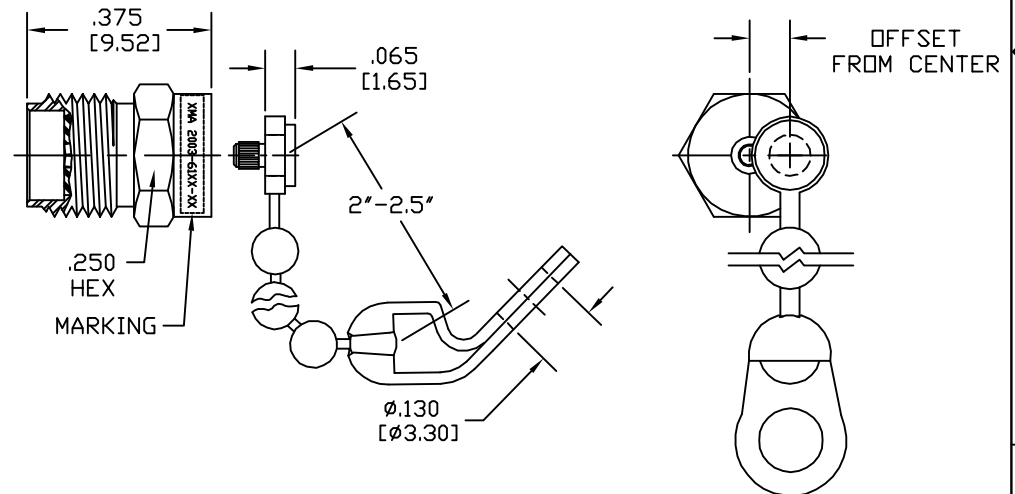
REVISIONS

REV	DESCRIPTION	APPROVED
-	REVISED TO NEW LAYOUT & UPDATED FORMAT	05/24/2011 D.S.S.



2002-61XX-XX

INTERFACES MATE / COMPLY WITH MIL-STD-348 FOR SMA



2004-61XX-XX

AVAILABLE WITH NUT WIRELOCK HOLES,
CONTACT FACTORY

DRAWING PRACTICES PER ANSI Y14.5 MIL-STD-100 & 1000	UNLESS OTHERWISE SPECIFIED TOLERANCES IN:	DRAWN T. MAIN DATE 05/16/2011
3DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	DECIMALS INCH MM	CHECKED D. SAUNDERS DATE 05/24/2011
SURFACE ROUGHNESS	.XX" .05" [1.3] .XXX" .030" [7.6] .XXXX" .015 [3.9] .XXXXX" .0005" [0.13]	ENG. D. SAUNDERS DATE 05/24/2011
FINISH	ANGLES ±	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF XMA CORP. / OMNI SPECTRA AND SHALL NOT BE REPRODUCED, COPIED, MODIFIED, IN WHOLE OR IN PART, OR USED 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
MATERIAL	UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.	SCALE 5 : 1
SEE NOTES		PLATE OFF COLL. R.F. B.C.H.F.
SEE NOTES		XXX

WWW.XMACorp.com Sales@XMACorp.com		XMA Corp. 150 Dow St. Manchester, NH 03045 (603) 222-2256 fax 222-2259	
XMA Omni Spectra®		TITLE 1 WATT SMA TERMINATION DC TO 27 GHz	
SIZE C	CAGE CODE 3HT76	DWG NO. 2002-61XX-XX	
SCALE 5 : 1	PLATE OFF COLL. R.F. B.C.H.F.	XXX	SHEET 1 OF 2

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REVISIONS			
REV	DESCRIPTION	APPROVED	
-	REVISED TO NEW LAYOUT & UPDATED FORMAT	05/24/2011	D.S.S

FREQUENCY (GHz)	AVERAGE POWER (WATTS)	VSWR DC - 4 (GHz)	VSWR 4 - 12.4 (GHz)	VSWR 12.4 - 18 (GHz)	VSWR 18 - 26.5 (GHz)	PART NUMBER
DC - 4.0	1.0	DC-2 1.10:1 2-4 1.15:1	-	-	-	2002-6500-0X
			-	-	-	-
DC - 12.4	1.0	1.05:1	1.05:1	-	-	2002-6116-0X
		1.05:1	1.05:1	-	-	2004-6116-0X
DC - 18.0	1.0	1.05:1	1.15:1	1.20:1	-	2002-6101-0X
		1.05:1	1.05:1	1.05:1	-	2002-6118-0X
		1.05:1	1.05:1	1.10:1	-	2002-6117-0X
		1.10:1	1.10:1	1.10:1	-	2002-6111-0X
		1.05:1	1.15:1	1.20:1	-	2002-6112-0X
		1.10:1	1.20:1	1.30:1	-	2002-6113-0X
		1.10:1	1.20:1	1.30:1	-	2002-6114-0X
		1.05:1	1.05:1	1.10:1	-	2004-6117-0X
		1.10:1	1.10:1	1.10:1	-	2004-6111-0X
		1.05:1	1.15:1	1.20:1	-	2004-6112-0X
		1.10:1	1.20:1	1.30:1	-	2004-6113-0X
		1.10:1	1.20:1	1.30:1	-	2004-6115-0X
		1.05:1	1.10:1	1.20:1	1.30:1	2002-6110-0X
		1.05:1	1.10:1	1.20:1	1.30:1	2004-6110-0X
DC - 26.5	1.0	1.05:1 + .007f (GHz) 1.05 @ DC to 1.24 @ 26.5 GHz				2002-6119-0X

XMA Powered by:		Omni Spectra®	
XMA Corp. 150 Dow St. Manchester, NH 03045 (603) 222-2256 fax 222-2259			
TITLE 1 WATT SMA TERMINATION DC TO 27 GHz			
SIZE C	CAGE CODE 3HT76	DWG NO. 2002-61XX-XX	
SCALE 5 : 1	PLATE AREA SQ. IN. REF. DIMS	XXX	SHEET 2 OF 2

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