

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

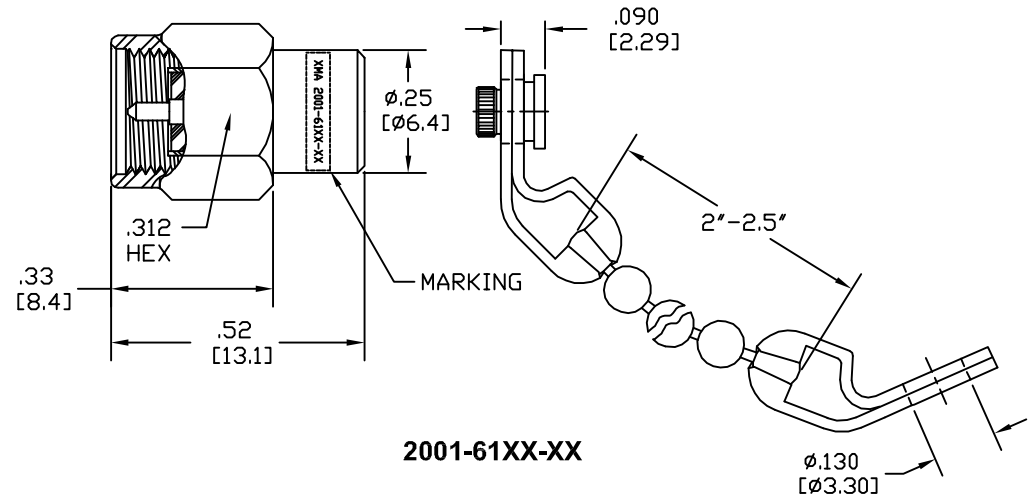
**POWER DERATES LINEARLY FROM +45°C TO <10 % @+125°C

PRODUCTION
RELEASE

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

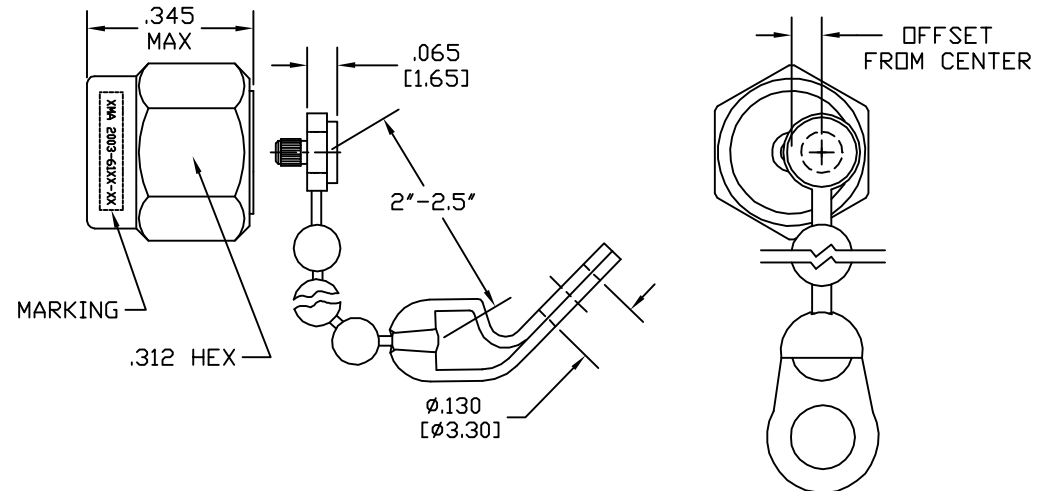
REVISIONS

REV	DESCRIPTION	APPROVED
-	REVISED TO NEW LAYOUT & UPDATED FORMAT	05/25/2011 D.S.S.



2001-61XX-XX

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



2003-61XX-XX

**AVAILABLE WITH NUT WIRELOCK HOLES,
CONTACT FACTORY**

DRAWING PRACTICES PER ANSI Y14.5
MIL-STD-100 & 1000

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND
APPLY BEFORE/ AFTER PROCESSING

SURFACE
FINISH

SEE NOTES

MATERIALS
SEE NOTES

UNLESS OTHERWISE SPECIFIED	DECIMALS	INCH	MM
.XX	.05	[1.3]	
.XXX	.030	[.76]	
.XXXX	.015	[.39]	
.XXXXX	.0005	[.013]	
ANGLES	±		

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

DRAWN	T. MAIN	DATE	05/16/2011
CHECKED	D. SAUNDERS	DATE	05/25/2011
ENG.	D. SAUNDERS	DATE	05/25/2011

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COPY FOR INTERNAL REVIEW USE AS NEEDED

XMA Corp. 150 Dow St. Manchester, NH 03045 (603) 222-2256 fax 222-2259			
TITLE 1 WATT SMA TERMINATION DC TO 27 GHz			
SIZE	CAGE CODE	DWG NO.	
C	3HT76	2001-61XX-XX	
SCALE	5 : 1	SHEET	1 OF 2

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REVISIONS			
REV	DESCRIPTION	APPROVED	
-	REVISED TO NEW LAYOUT & UPDATED FORMAT	05/25/2011	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	-	-	-	2001-6500-0X
		2-4 1.15:1	-	-	-	2001-6501-0X
		DC-1 1.05:1	-	-	-	2001-6151-02
		2-4 1.10:1	-	-	-	2003-6151-02
DC - 12.4	1.0	1.05:1	1.05:1	-	-	2001-6116-0X
		1.05:1	1.05:1	-	-	2003-6116-0X
DC - 18.0	1.0	1.05:1	1.15:1	1.15:1	-	2001-6105-0X
		1.05:1	1.15:1	1.15:1	-	2001-6100-0X
		1.05:1	1.15:1	1.20:1	-	2001-6101-0X
		1.09:1	1.17:1	1.23:1	-	2001-6143-0X
		1.05:1	1.05:1	1.05:1	-	2001-6118-0X
		1.05:1	1.05:1	1.10:1	-	2001-6117-0X
		1.10:1	1.10:1	1.10:1	-	2001-6111-0X
		1.05:1	1.15:1	1.20:1	-	2001-6112-0X
		1.10:1	1.20:1	1.30:1	-	2001-6113-0X
		1.10:1	1.20:1	1.30:1	-	2001-6115-0X
		1.05:1	1.05:1	1.10:1	-	2003-6117-0X
		1.10:1	1.10:1	1.10:1	-	2003-6111-0X
		1.05:1	1.15:1	1.20:1	-	2003-6112-0X
		1.10:1	1.20:1	1.30:1	-	2003-6113-0X
		1.10:1	1.20:1	1.30:1	-	2003-6115-0X
DC - 26.5	1.0	1.05:1	1.10:1	1.20:1	1.30:1	2001-6110-0X
		1.05:1	1.10:1	1.20:1	1.30:1	2003-6110-0X
		1.05:1 + .007f (GHz) 1.05 @ DC to 1.24 @ 26.5 GHz				2001-6119-0X

		
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TITLE 1 WATT SMA TERMINATION DC TO 27 GHz		
SIZE C	CAGE CODE 3HT76	DWG NO. 2001-61XX-XX
SCALE 5 : 1	PLATE 06A CD REF 06A-0	SHEET 2 OF 2

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