

# 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-XX.X" APPENDING "-C" ADDS CHAIN ASSEMBLY, XX.X" LONG

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

FOR UNMARKED UNITS ADD "-U" FOR "-0x-U" 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 - 30 GHz (See Chart)
- VSWR: See Chart
- 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

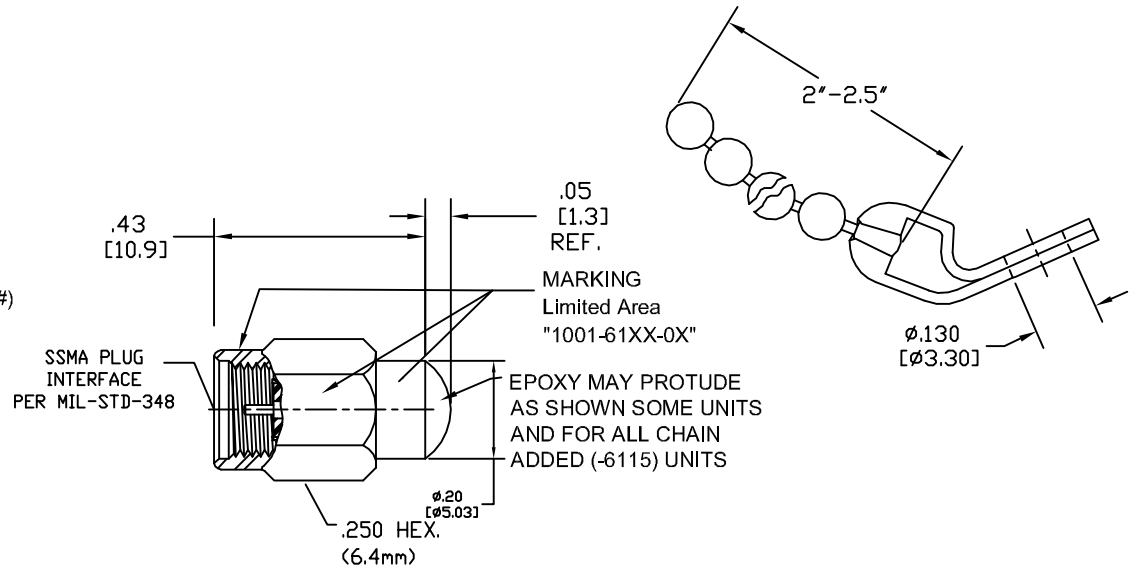
\*\*POWER DERATES LINEARLY FROM +25°C TO <0 % @+125°C

PRODUCTION RELEASE

NOTE:  
THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.  
INTERPRET IAW ANSI Y14.5-1995

REVISIONS		
REV	DESCRIPTION	APPROVED
E	REVISED Layout	05/31/2011 D. Saunders

## INTERFACES MATE / COMPLY WITH MIL-STD-348 FOR SSMA



MARKING Limited Area "1001-61XX-0X"

EPOXY MAY PROTUDE AS SHOWN SOME UNITS AND FOR ALL CHAIN ADDED (-6115) UNITS

## MAX. VSWR Chart

Model #	DC-4	4-12.4	12.4-18	18-26	26-30
1001-:					
XXXX-0Y	DC-4	4-12.4	12.4-18	18-26	26-30
-6112-0Y	1.07	1.15	1.20	N/A	N/A
-6113-0Y	1.10	1.20	1.30	N/A	N/A
-6115-0Y	Same as -6113-0Y but with Chain and Eyelet				
-6119-0Y	1.10	1.25	1.25	1.35	N/A
-7030-0Y	1.10	1.25	1.25	1.35	1.45

DRAWING PRACTICES PER ANSI Y14.5-1995 MIL-STD-100 & 1000	UNLESS OTHERWISE SPECIFIED TOLERANCES IN DECIMALS INCH MM .XX" .05" [1.3] .XXX" .030" [7.6] .XXXX" .015 [3.9] .XXXXX" .0005" [0.13]	DATE T. MAIN 05/16/2011 DATE D. SAUNDERS 05/25/2011 DATE D. SAUNDERS 05/25/2011
3DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	SURFACE FINISH	FINISH
SEE NOTES	SEE NOTES	SEE NOTES
MATERIAL	UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF XMA CORP / OMNISPECTRA AND SHALL NOT BE REPRODUCED, COPIED, NOR USED, IN WHOLE 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 WEDED

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TITLE  
**1 WATT SSMA TERMINATION DC TO 30 GHz**

SIZE C	CAGE CODE 3HT76	DWG NO. 1001-61XX-XX
SCALE 5 1 1	PLATE OFF CD, REF. BENCH	XXX SHEET 1 OF 2