

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

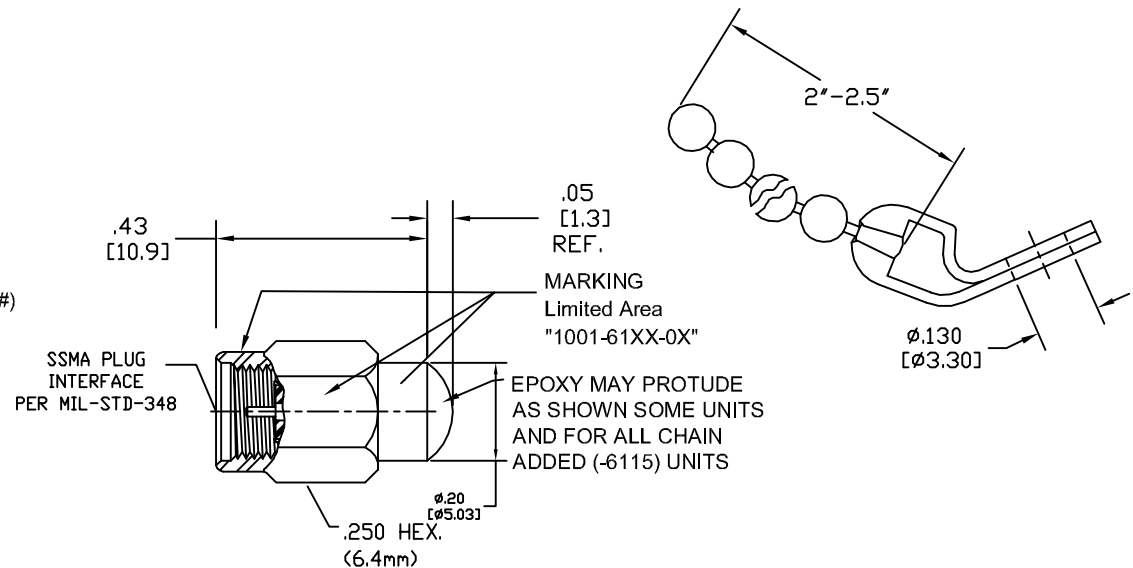
PRODUCTION
RELEASE

NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION.
INTERPRET IN ACCORDANCE WITH
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



MAX. VSWR Chart

Model #

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

3DIMENSIONS ARE IN INCHES AND
APPLY BEFORE/AFTER PROCESSING

SURFACE
ROUGHNESS

FINISH
SEE NOTES

MATERIAL
SEE NOTES

UNLESS OTHERWISE SPECIFIED
TOLERANCES IN
DECIMALS INCH MM

.XX" .05" [1.3]

.XXX" .030" [.76]

.XXXX" .015 [.39]

.XXXXX" .0005" [.013]

ANGLES ±

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

DRAWN
T. MAIN

CHECKED
D. SAUNDERS

DATE
05/25/2011

DATE
05/25/2011

DATE
05/25/2011

DATE
05/25/2011

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05/25/2011

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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 PLATE OFF CO. REF. XXX SHEET 1 OF 2