

MECHANICAL SPECIFICATIONS

MATERIALS (ALL PER MIL-PRF-39012 & MIL-DTL-39030) AQL 2.5 INSPECTION

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

** Exception for the 200X-6115-XX, This series comes with 2" to 2.5" chain assembly

FOR DFAR COMPLIANT VERSION, ADD "-DF" TO THE END OF THE PART NUMBER.

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, 100% TEST

IMPEDANCE: 50 OHMS, REF,

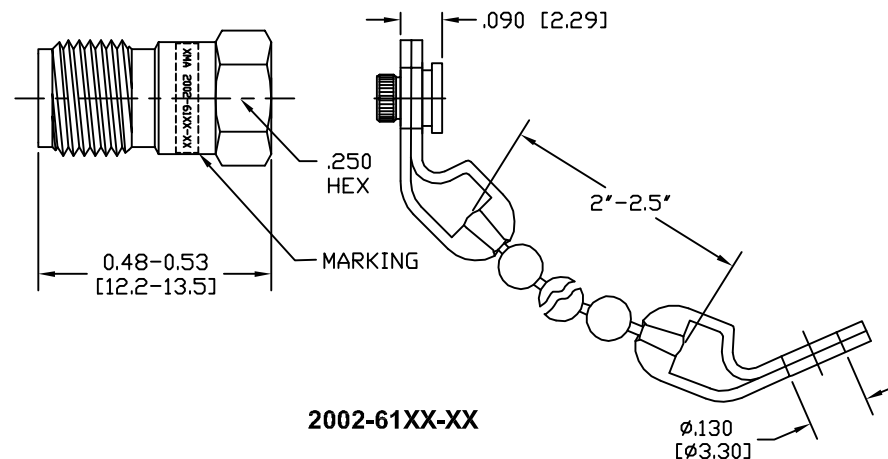
TEMPERATURE RANGE (°C) -65 TO +125 OPERATING
+150° STORAGE

POWER (AVG) 1 WATT**

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

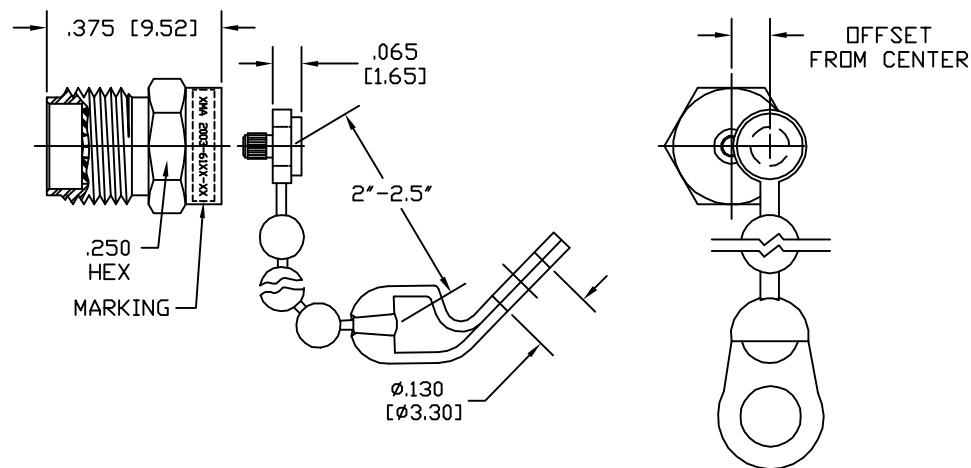
**POWER DERATES LINEARLY FROM +45°C TO <10% @+125°C

REVISIONS				
REV	DESCRIPTION	ECD #	DATE	APPROVED
C	ADDED CHAIN PROVISION TO 200X-6115-XX	13-082	3/29/13	T. KUHN
D	ADDED LIMITS TO OVERALL LENGTH	13-262	10/24/13	T. KUHN



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-Y-14.5 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	TOLERANCES IN DECIMALS INCH FRACTIONS INCH
SURFACE ROUGHNESS INCHES	.005" [0.127] .003" [0.076] .001" [0.025]
FINISH	
SEE NOTES	
NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION	
INTERPRET JAW ANSI Y14.5-1998	

UNLESS OTHERWISE SPECIFIED TOLERANCES IN DECIMALS INCH FRACTIONS INCH	.005" [0.127] .003" [0.076] .001" [0.025]
ANGLES ±0°30'	
REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005"	
UNLESS OTHERWISE NOTED, DIAS CONCENTRIC ±.003 T.I.P.	
DO NOT SCALE PRINT	

DRAWN T. MAIN CHECKED D. SAUNDERS ENG APPR. D. SAUNDERS	DATE 05/16/11 DATE 05/24/11 DATE 05/24/11
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XMA Omni Spectra Phone: 603-222-2256 Fax: 603-222-2259 150 Dow Street, Manchester, NH 03101	
1 WATT TERMINATION DC TO 27 GHz	
SIZE C	CAGE CODE 3HT76
SCALE 5:1	DRAWING NUMBER 2002-61XX-XX
SHEET 1 OF 2	REV D

REVISIONS				
REV	DESCRIPTION	ECD #	DATE	APPROVED
D	SEE SHEET 1			

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	0.5	DC-2 1.10:1 2-4 1.15:1	-	-	-	2002-6500-0X
DC - 4.0	1.0	DC-1 1.05:1 2-4 1.10:1	-	-	-	2002-6501-0X
			-	-	-	2002-6151-02
		DC-1 1.05:1 2-4 1.10:1	-	-	-	2002-6151-02
			-	-	-	2004-6151-02
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	1.15:1	-	2002-6105-0X
		1.05:1	1.15:1	1.15:1	-	2002-6100-0X
		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	-	2002-6115-0X*
		1.10:1	1.20:1	1.30:1	-	2004-6115-0X*
DC - 26.5	1.0	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
		1.05:1 + .007f (GHz) 1.05 @ DC to 1.24 @ 26.5 GHz				2002-6119-0X

* WITH 2" TO 2.5" MONEL BEAD CHAIN.

		Powered by: Omni Spectra® Phone: 603-222-2256 Fax: 603-222-2259 150 Dow Street, Manchester, NH 03101	
		TITLE 1 WATT TERMINATION DC TO 27 GHz	
SIZE C	CAGE CODE 3HT76	DRAWING NUMBER 2002-61XX-XX	REV D
SCALE 5:1	PART 100% IN XXX	SHEET 2 OF 2	TEMPLATE REV -