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**SPECIFICATIONS**

**ELECTRICAL**

FREQUENCY RANGE \_\_\_\_\_ DC - 26.5GHz

VSWR \_\_\_\_\_ SEE TABLE

IMPEDANCE \_\_\_\_\_ 50 OHMS

TEMPERATURE RANGE \_\_\_\_\_ 4 KELVIN TO +125°C

POWER (AVG) \_\_\_\_\_ 1 WATT  
POWER DERATES LINEARLY FROM +45°C TO <10% @+125°C

POWER (PEAK) \_\_\_\_\_ 500 WATTS  
(<5 μ SEC PW, <1% DUTY CYCLE)

**MECHANICAL**

INNER CONDUCTOR: \_\_\_\_\_ BERYLLIUM COPPER PER  
ASTM B196 & B197.

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

DIELECTRIC: TEFLON PER ASTM D1710.

**FINISH**

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

HOUSING/COUPLING NUT FINISH PER SUFFIX (REPLACING -0X IN P/N)  
-00 OUTER CONDUCTOR/NUT GOLD PLATED  
-02 OUTER CONDUCTOR/NUT PASSIVATED SS  
-01 OUTER CONDUCTOR GOLD PLATED, NUT PASSIVATED SS

ADD "C" TO THE END OF PART NUMBER FOR CHAINED UNITS. (EXCLUDING PARTS 2001-6105-0X-CRYO AND 2001-6115-0X-CRYO)

**\*\* EXCEPTION FOR THE 200X-6151-02-CRYO, OUTER HOUSING IS GOLD PLATED AND NUT IS PASSIVATED**

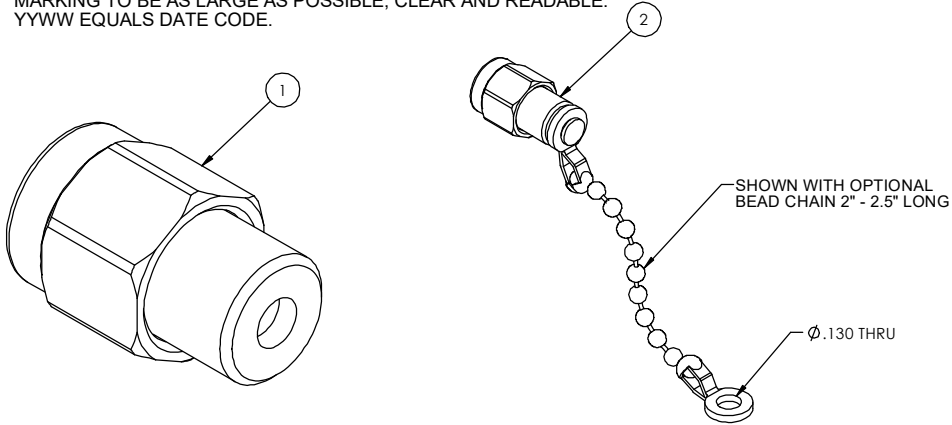
ADD C FOR 2-2.5" CHAIN ATTACHED

CONNECTOR INTERFACE COMPLIES WITH MIL-PRF-39012 AND MIL-STD-348 FOR SMA MATING CHARACTERISTICS.

RoHS COMPLIANT DEVICE

**MARKING**

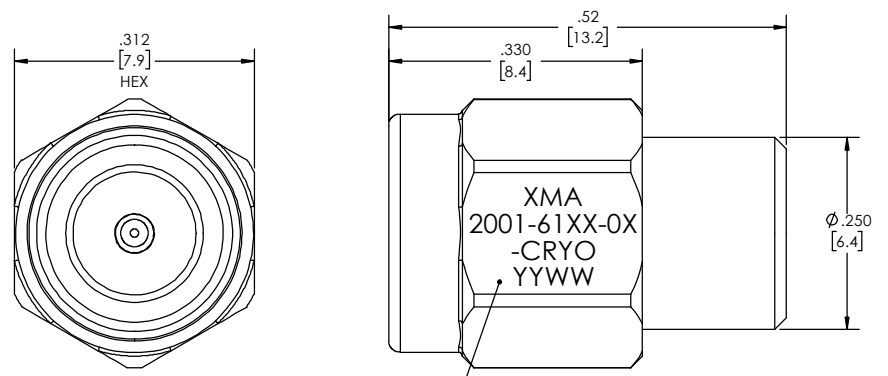
PART LOOKS LIKE PRODUCT IMAGE ABOVE.  
PART MARKING ORIENTATION AND FORMAT AS SHOWN.  
MARKING TO BE AS LARGE AS POSSIBLE, CLEAR AND READABLE.  
YYWW EQUALS DATE CODE.



REVISIONS				
REV	DESCRIPTION	ECO #	DATE	APPROVED
D	REVISED MARKING AREA	15-297	10/7/15	T.KUHN
E	ADDED ** NOTE TO TABLE: LENGTH TOL	16-143	6/23/16	T.KUHN
F	REMOVED 2001-6118-0X	17-046	4/11/17	T.KUHN
G	4-12.4GHz VSWR WAS 1.05:1, 6116 AND 6117	18-121	8/13/18	T.KUHN

FREQUENCY (GHz)	VSWR DC-4 (GHz)	VSWR 4-12.4 (GHz)	VSWR 12.4-18 (GHz)	VSWR 18-26.5 (GHz)	PART NUMBER
DC-4	DC-1 1.05:1 2-4 1.10:1	-	-	-	2001-6151-02-CRYO**
DC-12.4	1.05:1	1.10:1	-	-	2001-6116-0X-CRYO
DC-18	1.05:1	1.10:1	1.25:1	-	2001-6144-0X-CRYO
	1.05:1	1.15:1	1.15:1	-	2001-6105-0X-CRYO*
	1.05:1	1.15:1	1.15:1	-	2001-6100-0X-CRYO
	1.05:1	1.15:1	1.20:1	-	2001-61010X-CRYO
	1.05:1 +0.01 f (GHz)	DC - 18GHz	-	-	2001-6143-0X-CRYO
	1.05:1	1.10:1	1.10:1	-	2001-6117-0X-CRYO
	1.10:1	1.10:1	1.10:1	-	2001-6111-0X-CRYO
	1.05:1	1.15:1	1.20:1	-	2001-6112-0X-CRYO
DC-26.5	1.10:1	1.20:1	1.30:1	-	2001-6113-0X-CRYO
	1.10:1	1.20:1	1.30:1	-	2001-6115-0X-CRYO*
	1.05:1	1.10:1	1.20:1	1.30:1	2001-6110-0X-CRYO
1.05:1 + .007f (GHz) DC TO 26.5 GHz					2001-6119-0X-CRYO

**\* WITH 2" TO 2.5" MONEL BEAD CHAIN**  
**\*\* EXCEPTION FOR THE 200X-6151-02-CRYO, OUTER HOUSING IS GOLD PLATED AND NUT IS PASSIVATED**



NO CHAIN	CHAIN	PART NUMBER	DESCRIPTION	ITEM NO.
		2001-61XX-0X-CRYO	TERMINATION, SMA-m, DC-26.5 GHz	
1	-	TA-2001-6000-0XYYU-CRYO	ASSEMBLY, TERMINATION, SMA-m, DC-26.5 GHz, UNMARKED	1
-	1	TA-2001-6000-0XYYUC-CRYO	ASSEMBLY, TERMINATION, SMA-m, DC-26.5 GHz, CHAINED, UNMARKED	2

DRAWING PRACTICES PER ANSI Y14.5  
DIMENSIONS ARE IN INCHES AND APPLY BEFORE/ AFTER PROCESSING

SURFACE ROUGHNESS  
INCHES: 63  
MILLIMETERS: 1.27

FINISH: SEE NOTES

MATERIAL: REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005"

NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.

UNLESS OTHERWISE SPECIFIED TOLERANCES IN:  
DECIMALS INCH (MM)  
X" .05" [1.27]  
.XX" .03" [.76]  
.XXX" .010" [.25]

ANGLES ±0°30'  
REMOVE ALL BURRS/SHARP W/ BREAK / R OF .003" TO .0005"  
UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.F.

DO NOT SCALE PRINT

DRAWN: MCCORMICK 11/20/11  
CHECKED: MCCORMICK 11/20/11  
ENG APPR: T.KUHN  
DATE: 11/20/11

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**XMA** Omni Spectra<sup>®</sup>

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TERMINATION, SMA-m, DC-26.5 GHz

SIZE	CAGE CODE	DRAWING NUMBER	REV
C	3HT76	2001-61XX-0X-CRYO	G

SCALE: PLATED AREA 50 IN SHEET 1 OF 1

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