

# MECHANICAL SPECIFICATIONS

## MATERIALS (ALL PER MIL-PRF-39012 & MIL-DTL-39030)

### INNER CONDUCTOR:

BERYLLIUM COPPER PER ASTM B196 & B197, GOLD PLATED FINISH PER MIL-PRF-39012

### OUTER CONDUCTOR/NUT/CHAIN EYELETS:

STAINLESS STEEL, CORROSION RESISTANT PER ASTM A484 & A582, CLASS 303, COND. A., PASSIVATED SS FINISH

### DIELECTRIC: TEFLON PER ASTM D1710.

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

## ELECTRICAL SPECIFICATIONS

### Frequency Range

3001-6120-02	_____	DC - 18 GHz
3001-6121-02	_____	DC - 12.4 GHz
3001-6124-02	_____	DC - 18 GHz*
3001-6125-02	_____	DC - 12.4 GHz*

\* = COMES WITH OPT. CHAIN SHOWN

VSUR:	DC - 4 GHz	_____	1.10:1
	4 - 8 GHz	_____	1.15:1
	8 - 12.4GHz	_____	1.20:1
	12.4 - 18GHz	_____	1.25:1

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

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

POWER (AVG) \_\_\_\_\_ 2 WATTS\*\*  
POWER (PEAK) (<5 μ SEC PW, <0.05% DUTY CYCLE) \_\_\_\_\_ 500 WATTS

\*\*POWER DERATES LINEARLY FROM +25°C TO <10 ° @ +125°C CASE

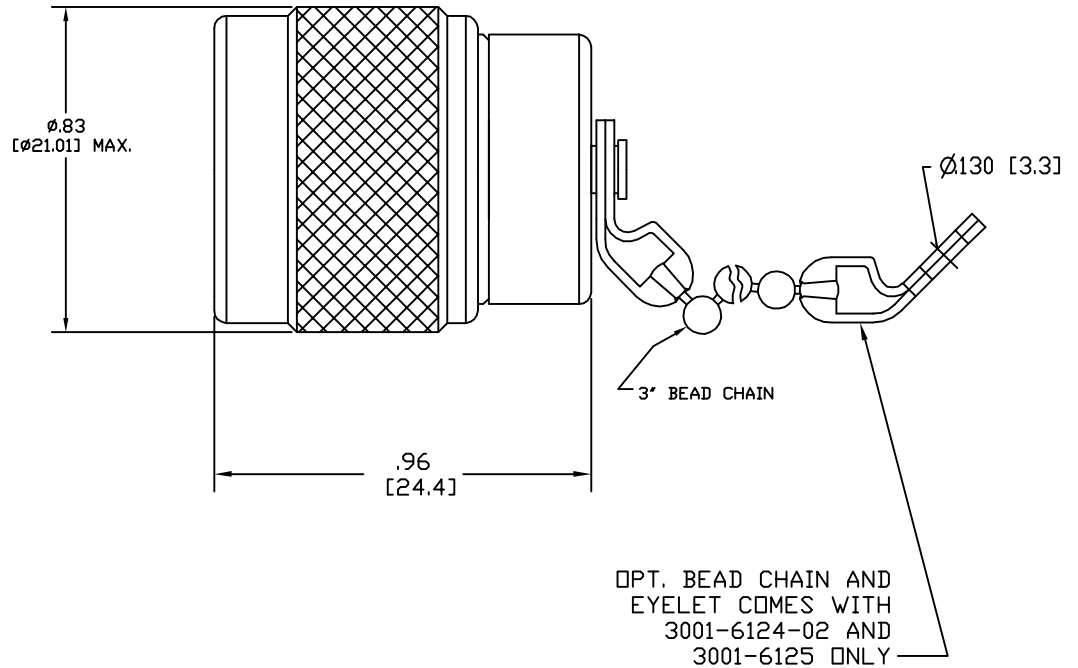
PRODUCTION  
RELEASE

NOTE:  
THIS DRAWING INCORPORATES  
THIRD ANGLE PROJECTION  
INTERPRET IN ACCORDANCE WITH  
ANSI Y14.5-1992

### REVISIONS

REV	DESCRIPTION	APPROVED
D	REVISED VSWR & DIAMETER	01/14/2010 D. Saunders

## INTERFACE MATES / COMPLY WITH MIL-STD-348 FOR TYPE N



OPT. BEAD CHAIN AND EYELET COMES WITH 3001-6124-02 AND 3001-6125 ONLY

DRAWING PRACTICES PER ANSI Y14.5-1992 MIL-STD-100 & 1000	UNLESS OTHERWISE SPECIFIED TOLERANCES IN:	DRAWN BY: D. SAUNDERS DATE: 01/14/2010
DIMENSIONS ARE IN INCHES AND APPLY BEFORE/AFTER PROCESSING	DECIMALS INCH MM	CHECKED BY: DATE:
SURFACE FINISH	.XX" .05" [1.3]	ENG: D. SAUNDERS DATE: 01/14/2010
	.XXX" .030" [.76]	
	.XXXX" .015 [.39]	
	.XXXXX" .0005" [.013]	
FINISH:	ANGLES ±	
SEE NOTES		
MATERIAL:	UNLESS OTHERWISE NOTED DIAS CONCENTRIC <.003 T.I.R.	
SEE NOTES		

DATE: 01/14/2010	DATE: 01/14/2010
DATE: 01/14/2010	DATE: 01/14/2010

WWW.XMACorp.com Sales@XMACorp.com

**XMA** Powered by: **Omni** **Spectra®**

XMA Corp. 150 Dow St. Manchester, NH 03045 (603) 222-2256 fax 222-2259

TITLE: 2 WATT TYPE N TERMINATION 18 GHz

SIZE: C	CAGE CODE: 3HT76	DWG NO.: 3001-612X-02
SCALE: 5:1	PLATING AREA: XXX	SHEET 1 OF 1