

# SPECIFICATIONS

## ELECTRICAL:

### VSWR:

|                   |      |
|-------------------|------|
| DC - 4 GHz        | 1.10 |
| 4 - 12.4 GHz      | 1.15 |
| 12.4 GHz - 18 GHz | 1.25 |

IMPEDANCE 50 OHMS

FREQUENCY RANGE DC TO 18 GHz

POWER (AVG) 2 WATTS

DERATES LINEARLY FROM 100 % @  $\leq +25^{\circ}\text{C}$  TO 10 % @  $+125^{\circ}\text{C}$

POWER (PEAK) (<5  $\mu$  SEC PW, <0.02 % DUTY CYCLE) 500 WATTS

TEMPERATURE RANGE ( $^{\circ}\text{C}$ ) -55 TO +125

## MATERIALS

### CENTER CONTACT

BERY COPPER ALLOY C17200 OR C17300 IAW ASTM B196/B197  
GOLD PLATED PER MIL-PRF-39012 (ASTM-B488)

### CONNECTOR HOUSING

STAINLESS STEEL IAW A582, TYPE 303, PASSIVATED PER  
QQ-P-35

### DIELECTRIC

TEFLON IAW ASTM-D1710

### RESISTIVE ELEMENT

THIN FILM ON CERAMIC RESISTOR - PREFERRED MATERIALS  
FOR USE AT CRYOGENIC TEMPERATURES TO 0 KELVIN

CONNECTOR MATING INTERFACE DIMENSIONS COMPLY WITH  
MIL-PRF-39012 AND MIL-STD-348 FOR TNC A MALE CONNECTORS

WILL MEET ALL ENVIRONMENTAL REQUIREMENTS OF MIL-DTL-39030

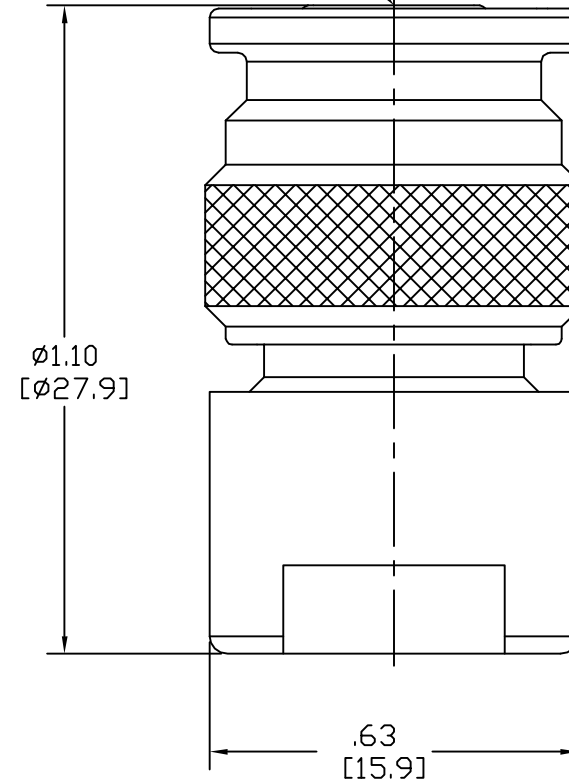
PRODUCTION  
RELEASE

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

## REVISIONS

| REV | DESCRIPTION                        | APPROVED               |
|-----|------------------------------------|------------------------|
| A   | REVISED LENGTH FROM 1.25" TO 1.10" | 09/03/2010 D. Saunders |

TNC A INTERFACE  
IAW MIL-STD-348



|  |   |  |                  |
|--|---|--|------------------|
| DRIVING PRACTICES PER ANSI-Y-14.5<br>MIL-STD-100 & 1000        | UNLESS OTHERWISE SPECIFIED<br>TOLERANCES IN               | DRAWN<br>D. SAUNDERS   | DATE             |
| DIMENSIONS ARE IN INCHES AND<br>APPLY BEFORE/ AFTER PROCESSING | DECIMALS .03" [.76]                                       | CHECKED  | DATE             |
| SURFACE<br>ROUGHNESS 63 ✓                                      | .XX" .010" [.25]  | ENG.   | DATE             |
| FINISH   | .XXX" .005 [.127]   | THESE DRAWINGS AND<br>SPECIFICATIONS ARE THE PROPERTY<br>OF XMA CORP. OR OMNI SPECTRA<br>AND SHALL NOT BE REPRODUCED,<br>COPIED NOR USED - IN WHOLE OR IN<br>PART - AS A BASIS FOR THE<br>MANUFACTURE OR SALE OF OTHER<br>ITEMS WITHOUT THE EXPRESS<br>WRITTEN PERMISSION OF XMA CORP. |                  |
| MATERIAL   | .XXXX" .0005" [.013]                                      | SIZE   | CAGE CODE        |
| SEE NOTES  | ANGLES $\pm 0^{\circ}30'$                                 | C 3HT76  | DWG NO.          |
| SEE NOTES  | REMOVE ALL BURRS/SHARP W/<br>BREAK I/R OF .003" TO .0025" | SCALE  | 3701-7100-02     |
|  | DIA'S CONCENTRIC <.003 T.I.R.                             | 6:1  | XXX SHEET 1 OF 1 |

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TITLE  
TNC, 18 GHz, MALE  
2 WATT TERMINATION

SIZE C CAGE CODE 3HT76 DWG NO. 3701-7100-02  
SCALE 6:1 SHEET 1 OF 1