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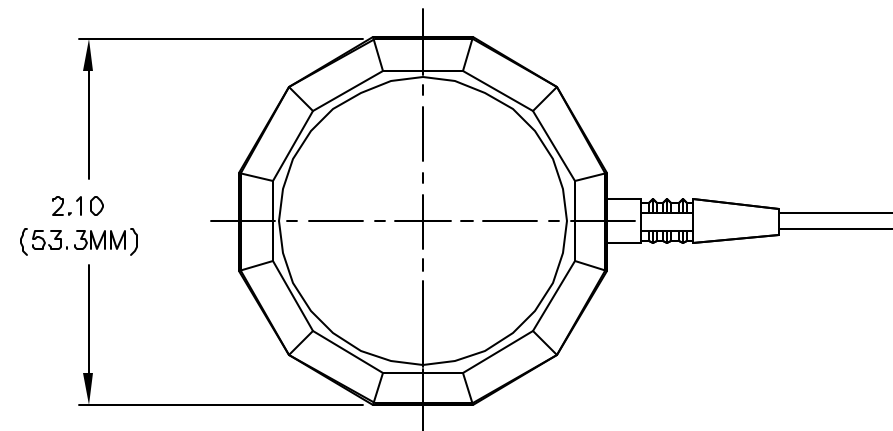
| REVISIONS |                        |          |          |
|-----------|------------------------|----------|----------|
| SYM       | DESCRIPTION            | DATE     | APPROVED |
| E         | REDESIGN RUBBER BUMPER | 11/14/03 |          |

SPECIFICATION:

NOTES: UNLESS OTHERWISE SPECIFIED

1. TOLERANCES: .XX =  $\pm .03$   
.XXX =  $\pm .010$

 LABEL SIZE, SHAPE AND CONTENTS SUBJECT TO CHANGE WITHOUT NOTICE.



FREQUENCY: 1616-1626 MHz  
POLARIZATION: RIGHT HAND CIRCULAR  
AXIAL RATIO: 3 dB MAX  
RADIATION COVERAGE: 4.0 dBic  $\theta^* = 0^\circ$   
-1.0 dBic  $0^\circ < \theta < 75^\circ$   
-2.5 dBic  $75^\circ \leq \theta < 80^\circ$   
-4.5 dBic  $80^\circ \leq \theta < 85^\circ$   
-7.5 dBic  $\theta = 90^\circ$

|                 |                                      |
|-----------------|--------------------------------------|
| IMPEDANCE:      | 50 OHMS                              |
| VSWR:           | $\leq 2.0:1$                         |
| WEIGHT:         | 3.7 OUNCES                           |
| MATERIAL:       | RADOME—XENOY, HIGH IMPACT<br>& TEMP. |
| ALTITUDE:       | 20,000'                              |
| OPERATING TEMP: | -40°C TO +85°C                       |

PART NO. DESIGNATION:

AT1621-7X-XXXX-XXX-XX-XX-XX

COLOR \_\_\_\_\_  
 B = BLACK  
 S = SMOKE GRAY  
 O = OLIVE DRAB  
 W = WHITE

CONNECTOR

|        |   |        |             |
|--------|---|--------|-------------|
| TNCM   | = | TNC    | MALE        |
| * TNCF | = | TNC    | FEMALE      |
| BNCM   | = | BNC    | MALE        |
| * BNCF | = | BNC    | FEMALE      |
| MCXM   | = | MCX    | MALE        |
| * MCXF | = | MCX    | FEMALE      |
| SMAM   | = | SMA    | MALE        |
| * SMAF | = | SMA    | FEMALE      |
| * NTPM | = | N TYPE | MALE        |
| * NTPF | = | N TYPE | FEMALE      |
| * 0000 | = | NO     | TERMINATION |

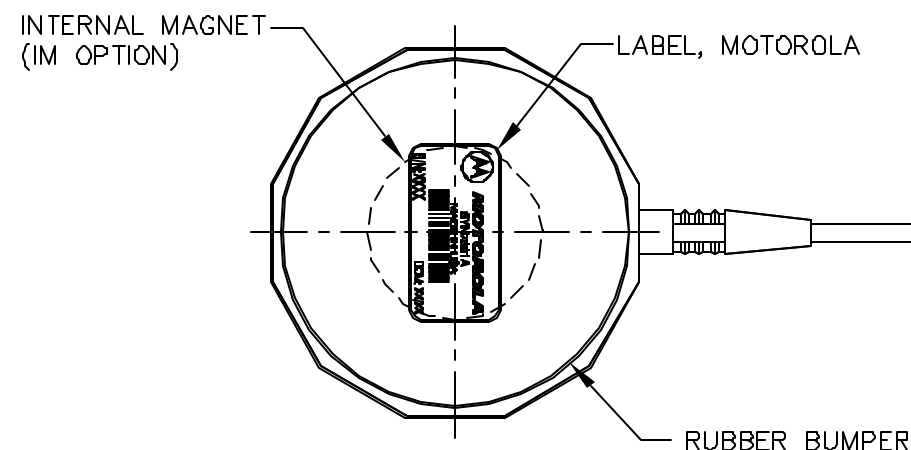
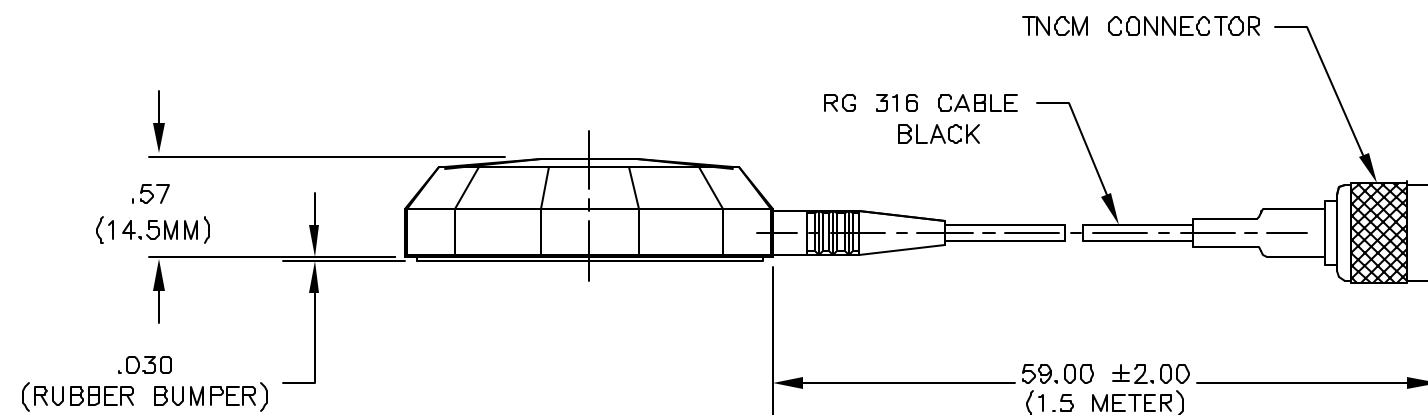
CABLE LENGTH \_\_\_\_\_  
000 = IN INCHES

- MAGNET
  - \* NM = NO MAGNET
  - IM = INTERNAL
  - RM = REMOVABLE
  - HD = HEAVY DUTY

— GAIN ( $\pm 2$  db)  
 00 = PASSIVE  
 \* 12 = 12 db {20 mA}  
 \* 26 = 26 db {35 mA}  
 \* 36 = 36 db {50 mA}  
 \* XX = OTHER

— VOLTAGE  
00 = PASSIVE  
\* 05 = 5 VDC  
\* RG = 5–18 VDC  
\* XX = OTHER

\* = OPTION NOT AVAILABLE WITH THIS MODEL  
RIGHT ANGLE CONNECTOR ADD "R" TO CONNECTOR NOTATION.  
STANDARD MODEL= AT1621-7B-TNCM-059-00-00-IM  
(MOTOROLA KIT NO. SYN7391A)



|          |                                                                                                                    |                        |          |                                                                                                                  |           |             |      |
|----------|--------------------------------------------------------------------------------------------------------------------|------------------------|----------|------------------------------------------------------------------------------------------------------------------|-----------|-------------|------|
| MOTOROLA | DO NOT SCALE THIS DRAWING                                                                                          | DRAWN<br>R. RICASA     | 08/24/98 |  AeroAntenna Technology Inc |           |             |      |
|          | ALL DIMENSIONS ARE IN INCHES<br>DIMENSIONING & TOLERANCING<br>PER ANSI Y14.5M-1982                                 | CHECKED<br>D. KIM      | 08/27/98 | TITLE                                                                                                            |           |             |      |
|          | TOLERANCES: <del>XXX</del> = <del>±.01</del><br><del>XXX</del> = <del>±.005</del><br>FRACT = ±1/32<br>ANG. = ±1/2° | ENGR<br>S. VALDES      | 08/28/98 | IRIDIUM ANTENNA                                                                                                  |           |             |      |
|          | ✓ SURFACE ROUGHNESS<br>PER ANSI B46.1                                                                              | Q.A.<br>B. RUBENI      | 09/01/98 | SIZE                                                                                                             | CAGE CODE | DRAWING NO. | REV  |
|          | REMOVE BURRS AND BREAK<br>SHARP EDGES:                                                                             | APPROVED<br>G. SHACHAR | 08/31/98 | B                                                                                                                | OUVG2     | AT1621-7    | E    |
|          | PART TO BE CLEAN AND OIL<br>FREE                                                                                   |                        |          | SCALE NONE                                                                                                       | AT1621-7E | SHEET 1     | OF 1 |
| USED ON  | UNLESS OTHERWISE SPECIFIED                                                                                         | DRAWN IN ACAD          |          |                                                                                                                  |           |             |      |