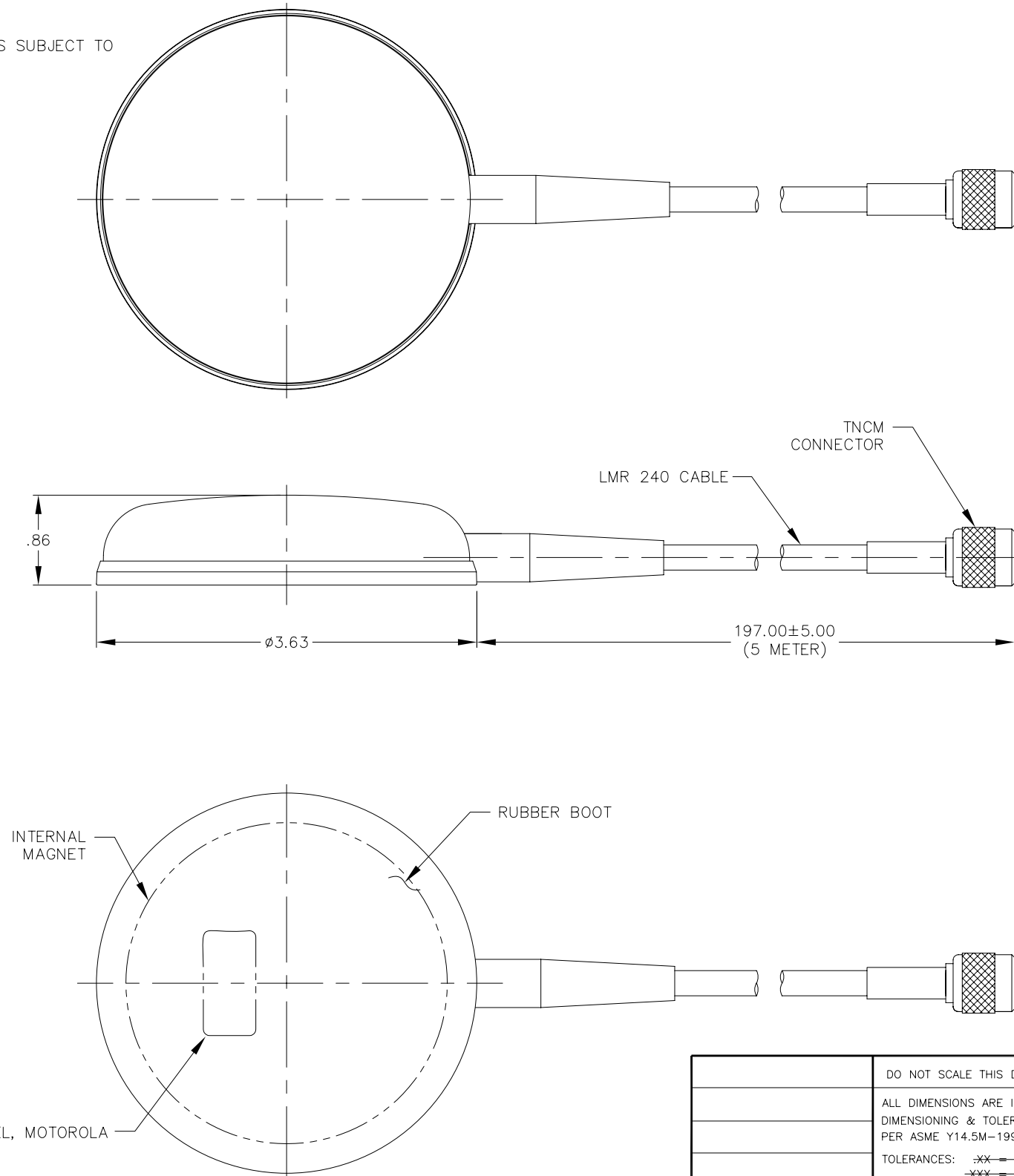


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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
E	SEE ECO 5859	03/23/05	

NOTES: UNLESS OTHERWISE SPECIFIED.

1. LABEL SIZE, SHAPE AND CONTENTS SUBJECT TO CHANGE WITHOUT NOTICE.
2. TOLERANCES: .XX = ±.03  
.XXX = ±.010



**SPECIFICATION:**

**FREQUENCY:** 1616-1626 MHz  
**POLARIZATION:** RIGHT HAND CIRCULAR  
**AXIAL RATIO:** 3dB 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  $\Omega$   
**VSWR:**  $\leq 2.0:1$   
**POWER HANDLING:** 7 WATTS, 15% DUTY CYCLE  
**CONNECTOR:** SPECIFY  
**WEIGHT:** 1 POUND  
**MATERIAL:** BASE-A380 ALUMINUM ALLOY CASTING  
RADOME-XENOY, BLACK

**ALTITUDE:** 20,000'  
**OPERATING TEMP:** -40°C TO +85°C  
**DESIGNED TO:** DO-160C

**PART NO. DESIGNATION:**

AT1621-12B-TNCM-197-00-00-IM

**COLOR**  
W = WHITE  
B = BLACK  
O = OLIVE DRAB

**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 = NTP MALE  
\*NTPF = NTP FEMALE  
\*O000 = NO TERMINATION

**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)  
\*40 = 40 dB (50 mA)  
\*XX = OTHER

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

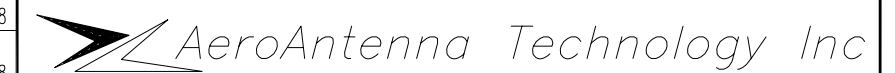
**CABLE LENGTH**  
000 = IN INCHES

\* = OPTION NOT AVAILABLE WITH THIS MODEL

STANDARD MODEL= AT1621-12B-TNCM-197-00-00-IM  
(MOTOROLA KIT NO. SAF5340A)

1 LABEL, MOTOROLA

DO NOT SCALE THIS DRAWING	DRAWN S. VALDES	08/07/98
ALL DIMENSIONS ARE IN INCHES DIMENSIONING & TOLERANCING PER ASME Y14.5M-1994	CHECKED D. KIM	08/27/98
TOLERANCES: .XX = ±.01 .XXX = ±.005 FRACT = ±1/32 ANG. = ±1/2'	ENGR S. VALDES	08/27/98
✓ SURFACE ROUGHNESS MACHINED PARTS $\sqrt{63}$ MOLDED PARTS $\sqrt{32}$	MFG	
REMOVE BURRS AND BREAK SHARP EDGES: PART TO BE CLEAN AND OIL FREE	Q.A. B. RUBENI	08/28/98
	APPROVED G. SHACHAR	08/28/98
NEXT ASSY	UNLESS OTHERWISE SPECIFIED	DRAWN IN ACAD



TITLE IRIDIUM ANTENNA			
SIZE B	CAGE CODE OUVG2	DRAWING NO. AT1621-12	REV E
SCALE NONE	I:\CAD\AT1621\12\AT1621-12E		SHEET 1 OF 1