



**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1			

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	(1610.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space
@ 90° (Zenith):	+4.9 +4.4
@ 10° Elevation (Ave):	-1.0 -2.6
@ 20° Elevation (Ave):	+1.5 -1.0
@ 30° Elevation (Ave):	+2.4 +0.4
@ 45° Elevation (Ave):	+3.3 +2.5
@ 70° Elevation (Ave):	+4.7 +4.0
Beam Width (3dB):	129° +106°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

**MECHANICAL:**

SIZE: DIAMETER = 2.60 in. [ 66.04 mm]  
HEIGHT = 0.690 in. [17.53 mm]

WEIGHT: 5.15 oz. (146 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
BASE IRIDIUM PER MIL-C-5441

COLOR: GLOSS WHITE #17925 PER FED-STD-595B  
LUSTERLESS GRAY #36320 PER FED-STD-595B  
OLIVE DRAB GREEN #34031 PER FED-STD-595B  
LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE  
COMPOSITE RADOME, IMPACT, ABRASION,  
UV, SOLVENT, AND SKYDROL RESISTANCE,  
FIRE RETARDANT

CONNECTOR: TNC MALE CONNECTOR WITH 192" LOW LOSS CABLE  
(OPTION: SMA, N, TNC, N-Bulkhead, MCX, MMCX)

MOUNTING: GLASS, FLAT, OR MAGNETIC MOUNT

**ENVIRONMENTAL:**

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

**FEDERAL & MILITARY SPECIFICATIONS:**

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541,  
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND  
SAE J1455

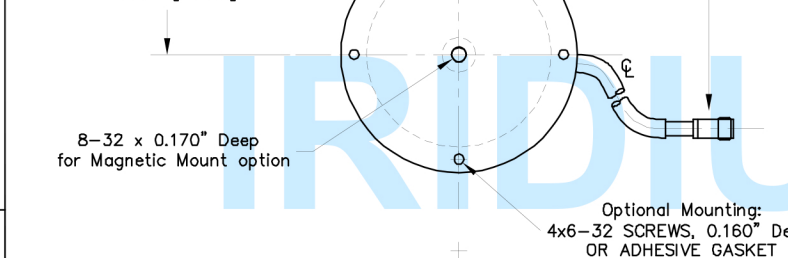
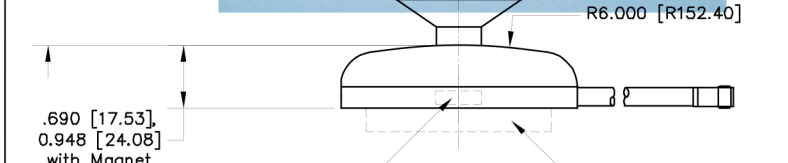
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**ADHESIVE GASKET**

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH
3	ADHESIVE GASKET	12345G-3M-3G		

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CONFIGURATION	POLARIZATION	LNA	MOUNTING/CABLE	CONNECTOR	COLOR
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	AT: WITH +34 dB LNA	X: BOTTOM CONNECTOR	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP	AT: WITH NO MAGNE T	X: NO MAGNE T	M: MCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	#M: WITH MAGNE T	N: N, NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		#G: WITH GLASS MOUN T	T: TNC, TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARING (FLAT)			#GM: GLASS/MAGNETIC MOUNT		
53: (HELIX ROD)			#: CABLE LENGTH, EMPTY FOR NO CABLE		
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: S2IR16RR-P-196GT-1

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
FRACTIONS SHALL BE DECIMALS  
± 1/64 INCHES  
± 0.001 INCHES  
± 1°  
TOLERANCE 250 PER ANG 114.8  
REMOVE ALL BURRS  
BEFORE ALL DIMENSIONS  
BEFORE ALL DIMENSIONS  
BEFORE ALL DIMENSIONS  
BEFORE ALL DIMENSIONS  
MACHINED SURFACES  
DO NOT SCALE DRAWING

**ANTECOM CORP.** TORRANCE CALIFORNIA  
**2.6" Dia. GLASS MOUNT IRIDIUM ANTENNA (with 196" Cable)**  
S. HUYNH DEC-13-02  
D 3C/E1 S2IR16RR-P-196GT-X  
SCALE 1/1  
SHEET 1 OF 1