



**ELECTRICAL:**

	TX	RX
FREQUENCY:	(1610.0 - 1626.5) MHz	(2483.5 - 2500.0) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	LHCP	LHCP
VSWR:	< 2.0:1	< 2.0:1
Ave. GAIN (dBic):	Free Space	Free Space
@ 90° (Zenith, Top):	+5.7	+5.1
@ 10° Elevation:	-2.0	-2.1
@ 20° Elevation:	-0.1	-0.3
@ 30° Elevation:	+1.6	+1.1
@ 45° Elevation:	+3.0	+2.6
@ 70° Elevation:	+5.0	+4.6
AXIAL RATIO @ Zenith:	2.0 dB	2.0 dB
3dB BEAM WIDTH:	98°	99°
POWER HANDLING:	< 5 W	1 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)	
Tx/Rx COUPLING:		
PASSIVE (without LNA)	< -24 dB @ Tx Band	< -32 dB @ Rx Band
ACTIVE (with LNA)	< -40 dB @ Tx Band	< +12 dB @ Rx Band
FILTER REJ.: (824-894) MHz	N/A	> 55 dB
(1610-1626.5) MHz		> 43 dB
(3220-3253) MHz		> 20 dB
(4830-4879.5) MHz		> 20 dB

**LNA OPTION:**

LNA GAIN:	N/A	(34 +/- 2) dB
LNA NOISE FIGURE:	N/A	2.4 dB
LNA INPUT 1dB:	N/A	> -23 dBm
LNA VOLTAGE:	N/A	(+2.5 to +30) Volts DC
LNA DRAWING CURRENT:	N/A	< 38 mA

**MECHANICAL:**

**SIZE:** WIDTH: 2.21 in. [56 mm], LENGTH: 4.16 in [106 mm], HEIGHT: 0.74 in. [19 mm]

**WEIGHT:** 7.5 oz. (213 g)

**FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING

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

**CONNECTOR:** Tx (Red): SMA FEMALE, Rx (Blue): SMA FEMALE (OPTIONAL: N, TNC, MCX, MMCX, OR CABLE)

**MOUNTING:** BACK/FLUSH MAGNETIC MOUNT WITH 4 x 6-32 SCREWS

**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

CONFIGURATION:	POLARIZATION:	Rx LNA	MOUNTING	Tx/Rx CONNECTOR	COLOR
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	A: WITH LNA	N: NO MAG. MOUNT	S: SMA; P: PINS	1: GLOSSWHITE#17925PERFED-STD-595B
1.9: 1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP		N: NO MAG. MOUNT	M: MCX; MM: MMCX	2: LUSTERLESSGRAY#3320PERFED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP		MN: FlushMag. Mount	N: N; NB: N-Bulkhead	3: OLIVEDRABGREEN#34031PERFED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP			T: TNC; TB: TNC-Bulkhead	4: LUSTERLESSBLACK#37038PERFED-STD-595B
4: MINI ARINC (FLAT)					
5: 5" x 2.2" FLAT					
4.2: 4.2" x 2.2" FLAT					
73: (HELIX)					

P/N: 4.2G1625LL-PA-MNSS-X

QUANTITY REQD	DESCRIPTION	PART NO	REV
4			1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± .1°

FORMER: ALL SURF BROWN EXTERNAL EDGES .005 TO .016 FLATTENED .005 TO .016 SCREW THREADS FOR UN-2-8979 DAT 014 CONFORM TO 22-009 MACHINED SURFACES

DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE, CALIFORNIA

(4.2 x 2.2 x 0.7)in  
Back/Flush Magnetic Mount  
GLOBULAR ANTENNA

DATE: 30 May 07  
DRAWN: S. HUYTH  
CHECKED: S. HUYTH  
APPROVED: S. HUYTH  
GAG FILE NO: May-01-07

REV: 1  
REV: 2  
REV: 3  
REV: 4

SCALE: 1/1  
SHEET: 1 OF 1