

3.500 [88.90] SQ.
 6 x 1.500 [38.10]
 3 x 3.000 [76.20]
 8xØ.164 [Ø4.17] Thru.
 ✓ Ø.325 [Ø8.26] X 100'

4xR.250 [R6.35]
 R2.125 [R53.98]
 R1.989 [R50.52] ★
 .843 [21.42]
 92.00°
 2.250 [57.15] SQ.
 .149 [3.78]
 .255 [6.48]

ANTENNA'S NORTH (FORWARD) DIRECTION INDICATION

SPECIFICATIONS

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	
A		Release	08/26/09 S.H

ELECTRICAL:

FREQUENCY:	S-Band (2-1 to 2.3) GHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dBi):	Free Space	4 ft G.P.
@ 90° (Zenith):	+2.5	+4.6
@ 10° Elevation:	-4.3	-1.1
@ 20° Elevation:	-3.0	+2.2
@ 30° Elevation:	-1.5	+2.2
@ 60° to 90° Elevation:	> 1.7	>+3.4
BEAM WIDTH (3dB):	104°	129°
AXIAL RATIO @ Zenith:	2 dB	
POWER HANDLING:	100 W	
LIGHTNING PROTECTION:	DC GROUNDING	

MECHANICAL:

SIZE: 3.50 in. [88.90 mm] SQ.
 HEIGHT = 0.655 in. [16.64 mm]
 WEIGHT: <5.5 oz. (160 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441
 COLOR: FIELD GREEN, FED-STD-595, COLOR #3409 5
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
 SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: SMA FEMALE
 (OPTION: TNC, TNC Bulkhead, N, N Bulkhead,
 MCX, MMCX, or Cable)

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

ACCEPTANCE TEST PROCEDURE:

 ATP-GPS-L1L2-100

QTY	DESCRIPTION	PARTS LIST	PART NO	FINISH	THM NO
1	1				1
-2	-1	DESCRIPTION			

QTY	DESCRIPTION	PARTS LIST	PART NO	FINISH	THM NO
4	-				5

3. PER LOCKHEED MARTIN IGES FILE	CONFORMAL RADIUS OPTION:	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TOLERANCES ARE DECIMALS	ANTCOM CORP. TORRANCE, CALIFORNIA PASSIVE RHCP S-BAND ANTENNA
2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION	3: 3.000" RADIUS (S) 3.5N: 3.500" RADIUS (NETFIRE, GMLRS, NLOS) 4P: 4.000" RADIUS (PAVERWAY) 5M: 5.000" RADIUS (INVERSION) 7.5EM: 7.500" RADIUS (EGBU, MALD) 14A: 14.000" RADIUS (ACM) *X: X" RADIUS (Ø Fil: No Radius)	TOLERANCE SYM PER ANSI Y14.5 REMOVE ALL DIMENSIONS FROM INTERNAL EDGES .005 TO .015 FILES # 208 TO 28 000 SOREW THREADS PER MIL-P-8879 DIA'S ON A CORNER Q 24 000 MACHINED SURFACES ✓	

P/N: 3CG22RR-P-XS-4-1.989
 SIZE: 1.9" SQ. FREQ. BAND: 1215: L1/L2 Polarization: RR: RHCP LNA: A: WITH LNA
 1.9: 1.9" SQ. 15: L1 ONLY LL: LHCP AL: WITH LNA/LIMITER/FILTER (INPUT: +50dBm, OUPUT: +30 dBm)
 2: 2.6" DIA. 22: 2.2-2.3 GHz P: WITHOUT LNA
 3: 3.5" DIA. 21: 2.1-2.2 GHz PL: PASSIVE WITH LIMITER/FILTER (INPUT: +50dBm, OUPUT: +30 dBm)
 4: MINI ARINC 09: GSM

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG, N: NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: T8; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

NOTES: UNLESS OTHERWISE SPECIFIED:

3. PER LOCKHEED MARTIN IGES FILE
 2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION