(1850-1990) MHz PCS-Band Antennas, P/N: 3G19RR-P-XT-1

3.5” Diameter Configurations with Additional Back Mounting Option

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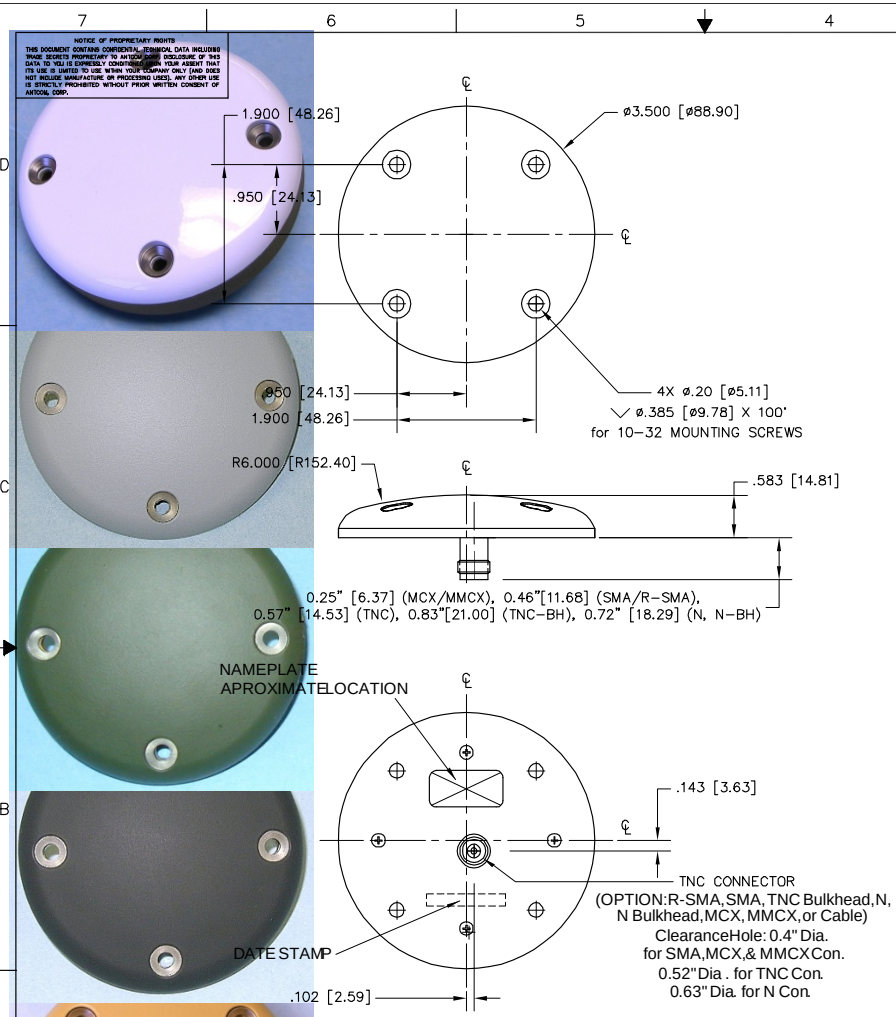


CONFIGURATION:	FREQ.BAND:
1: 2" SQ. (FLAT)	1215:L1/L2
1.9: 1.9" SQ. (FLAT)	15:L1 ONLY
2: 2.6" DIA. (FLAT)	16:1616 MHz
3: 3.5" DIA. (FLAT)	19:PCS
4: MINI ARINC (FLAT)	XY: X.Y GHz
5B: (HELIXROD)	
5B: (HELIXBLADE)	
3D: (HELIXHANDHELD)	

POLARIZATION:	LNA:	CABLE'SLENGTH	CONNECTOR
LL: TX: LHCP, RX: LHCP	A1: WITH+34 dB LNA	X: NO CABLE	S: SMA; P: PINS
LR: TX: LHCP, RX: RHCP		M: WITH MAG.MOUNT	M: MCX; MM: MMCX
RL: TX: RHCP, RX: LHCP	P: WITHOUTLNA	#: CABLE LENGTH(IN)	N: N; NB: N-Bulkhead
RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: 3G19RR-P-XT-1

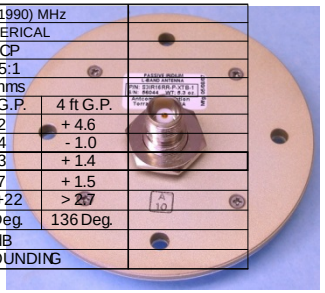
COLOR
-1: GLOSSWHITE#17925PER FED-STD-595B
-2: LUSTERLESSGRAY#36320PER FED-STD-595B
-3: OLIVEDRAB GREEN#34031PER FED-STD-595B
-4: LUSTERLESSBLACK#37038PER FED-STD-595B

ZONE	REV	DESCRIPTION	DATE	APPROVED
REVISIONS				

SPECIFICATIONS

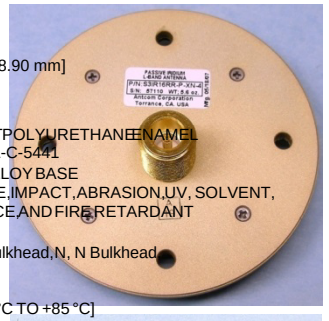
ELECTRICAL:

FREQUENCY:	PCS: (1850-1990) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 5.4	+ 2.2	+ 4.6
@ 10 ° Elevation	- 1.3	- 2.4	- 1.0
@ 20 ° Elevation	+ 0.4	- 0.3	+ 1.4
@ 30 ° Elevation	+ 1.8	+ 1.7	+ 1.5
@ 60 - 90 ° Elevation:	> 4.5	+4.6/+22	> 2.7
BEAM WIDTH (3dB):	109 Deg.	115 Deg.	136 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		



MECHANICAL:

SIZE:	DIAMETER: 3.50 in.[88.90 mm] HEIGHT:0.58" [14.73]
WEIGHT:	5.15 oz. (146 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME,IMPACT,ABRASION,UV, SOLVENT, SKYDROL RESISTANCE,AND FIRE RETARDANT
CONNECTOR:	TNC 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:	70,000ft.
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

QUANTITY REQD		DESCRIPTION	PART NO	FINISH	ITEM NO
		PARTS LIST			
4	–	MOUNTING SCREWS: 10–32, 3/4"	MS24693C274	–	5
A/R	–	WASHER, CUSTOM C'SINK	3G15P1001–7	–	3
1	1	ADHESIVE GASKET	12345G–3M–3G	–	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX ± .05, .XXX ± .005, ANGLES ± 1°. TOLERANCE SYM PER ANSI Y14.5. REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .016. FILLETS R .005 TO R .030. SCREW THREADS PER MIL-S-8879. DIA'S ON A COMMON ℄ ±.005. MACHINED SURFACES 125. DO NOT SCALE DRAWING.

DRAWN | CHECKED M. BOAS 01-05-29 | ENGINEER | APPROVED S. HUYNH 01-05-29 | CAD FILE NO

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5in Dia. RHCP PCS ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 3G19RR-P-XT-1 | REV –

SCALE 1/1 | SHEET 1 OF 1