



FAA Approved Facility

(1850-1990) MHz PCS-Band Antennas

P/N: 3G19RR-P-XT-1 (RHCP); P/N: 3G19LL-P-XT-1 (LHCP)

3.5" Diameter Configurations with Additional Back Mounting Option



Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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4X ϕ .020 [0.511]
 \checkmark ϕ .385 [9.78] X 100"
for 10-32 MOUNTING SCREWS

0.25 [6.37] (MCX/MMCX), 0.46 [11.68] (SMA/R-SMA), 0.57 [14.53] (TNC), 0.83 [21.00] (TNC-BH), 0.72 [18.29] (N, N-BH)

NAMEPLATE APPROXIMATE LOCATION

DATE STAMP

TNC CONNECTOR
(OPTION: R-SMA, SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)
Clearance Hole: 0.4" Dia. for SMA, MCX, & MMCX Con.
0.52" Dia. for TNC Con.
0.63" Dia. for N Con.

CONFIGURATION:	FREQ BAND	POLARIZATION:	LNA:	CABLE LENGTH	CONNECTOR
1: 2" SQ. (FLAT)	1215-11L2	LL: TX: LHCP, RX: LHCP	AT: WITH+34 dB LNA	X: NO CABLE	S: SMA, P: PINS
1.9: 1.9" SQ. (FLAT)	15: L1 ONLY	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	M: WITH MAG. MOUNT	N: MCX, MM: MMCX
2: 2.6" DIA. (FLAT)	16: 1616MHz	RL: TX: RHCP, RX: LHCP	R: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead
3: 3.5" DIA. (FLAT)	19: PCS	RR: TX: RHCP, RX: RHCP	R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	
4: MINI AIRINC (FLAT)	XY: X.Y GHz				
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3U: (HELIX HANDHELD)					

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: GLOSS WHITE #17925 PER FED-STD-595B
-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
-3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
-4: LUSTERLESS BLACK #37036 PER FED-STD-595B

SPECIFICATIONS

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	> 27
BEAM WIDTH (3dB):	109 Deg	115 Deg	136 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		

ELECTRICAL:

MECHANICAL:

SIZE: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 0.58" [14.73]

WEIGHT: 5.15 oz. (146g)

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

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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810 AND SAE J1455

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100

QUANTITY	DESCRIPTION	PARTS LIST	PART NO	FINISH	REV
4	MOUNTING SCREWS: 10-32, 3/4"	MS24683C274			5
A/R	WASHER, CUSTOM C'SINK	3G1SP1001-7			3
1	ADHESIVE GASKET	12345G-3M-3G			1
-2					-1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS: 1/16 TO 1/8
DECIMALS: .005 TO .015
ANGLES: ± 1/64
HOLE DIA: .005 ± .001

TOLERANCE 5TH PER ANSI Y14.5
FINISH: ALL SURFACES
BREAK: EXTERNAL EDGES .005 TO .015
SCREW: 1/8" DIA. TO 1/4" DIA.
SCREW: 1/8" DIA. TO 1/4" DIA.
HOLE DIA: .005 TO .015
MACHINED SURFACES: 12.5

DO NOT SCALE DRAWING

APPROVED: S. HUYNH 01-05-29
CHK FILE NO

ANTCOM CORP. TORRANCE, CALIFORNIA
3.5in Dia.
RHCP
PCS ANTENNA

SCALE 1/1
SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas