



ISO 9001:2008/FAA Approved Facility

L1 GPS & GSM (810-996MHz) Antenna, P/N: 3BG15GSMRV-AP-XTT-1, P/N: 3BG1215GSMRV-AP-XTT-1 (for L1/L2)
 L1 GPS & WIFI (2.4-2.5GHz) Antenna, P/N: 3BG1524RV-AP-XTT-1, P/N: 3BG121524RV-AP-XTT-1 (for L1/L2)
 L1 GPS & Quad Band (0.810-2.5GHz) Antenna, P/N: 3BG15QBRV-AP-XTT-1, P/N: 3BG1215QBRV-AP-XTT-1 (For L1/L2)
 L1 GPS & Wide Band (0.810-5.9GHz) Antenna, P/N: 3BG15WBRV-AP-XTT-1, P/N: 3BG1215WBRV-AP-XTT-1 (For L1/L2)
 L1 GPS & Wide Band 2 (2.4-5.9GHz) Antenna, P/N: 3BG15WB2RV-AP-XTT-1, P/N: 3BG1215WB2RV-AP-XTT-1 (For L1/L2)
 L1 GPS & L/S-Band 2 (1.6-2.5GHz) Antenna, P/N: 3BG15LSRV-AP-XTT-1, P/N: 3BG1215LSRV-AP-XTT-1 (For L1/L2)

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



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SPECIFICATIONS

ZONE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	WIFI	GPS
FREQUENCY:	(2400 - 2500) MHz	L1: (1575.42 ±13)
RADIATION PATTERN:	OMNIDIRECTIONAL	HEMISPHERICAL
POLARIZATION:	VERTICAL	RHCP
VSWR:	2.0:1	< 1.5:1
GAIN (dB):	>2dB	F.S. 4 ft G.P
@ 90° (Zenith):		+ 4.6 + 2.9
@ 10° Elevation:		- 2.5 - 1.8
@ 20° Elevation:		- 1.1 + 0.7
@ 30° Elevation:		+ 0.5 + 1.7
@ 45° Elevation:		+ 2.1 + 1.9
@ 60° to 90° Elevation:		> 3.6 > 2.1
BEAM WIDTH (3dB):		103 ° 146 °
AXIAL RATIO @ Zenith:		2 dB
POWER HANDLING:		1 Watt
LIGHTNING PROTECTION:		DC GROUNDING
FILTER (REJ. @1616 MHz):		> 60 dB
LNA GAIN:		(33.0/+1.0) dB, 20dB (-A2- Option)
LNA P 1dB Out:		+16 dBm
LNA NOISE FIGURE:		2.8 dB (Filter loss is Included)
VOLTAGE/CURRENT:		(+2.8 TO +28) Volts DC / (30 TO 50) mA

MECHANICAL:

SIZE: WIDTH 2.214 in. [56 mm], LENGTH 5.040 in. [128 mm], HEIGHT 3.538 in. [89.87 mm]

WEIGHT: 17.1 oz. (485 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5541F

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

CONNECTOR: TNC-FEMALE (OPTION: SMA, N, BNC)

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:

FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-STD-461E/F, SAE J1455
 MIL-E-5400, MIL-45208A, MIL-STD-810, MIL-S-901D, MIL-STD-167-1A

NMO Connector Option is Now Available for Some Antennas

SIZE: 1: 2" SQ., 1.9: 1.9" SQ., 2: 2.8" DIA., 3: 3.5" DIA., 4: MINI ARINC, 5B: Blade, 53: Rod

Frequency: 15: L1 GPS, 1715: L1/L2 GPS, GS: L1/L2 GPS/Glonass, L1: (1.6-2.0) GHz, 24: (2.4-2.5) GHz, C: (4.4-5.9) GHz

Other Frequency: L/S: (1.6-2.5) GHz, GSM: (810-996) MHz, QB: (0.810-2.5) GHz, WB: (0.810-5.9) GHz, WB2: (2.4-5.9) GHz

GPS/RX only LNA: A1: WITH +20 dB LNA, A2: WITH +33 dB LNA, P: WITHOUT LNA

DC BLOCK/LIMITER: DL: WITH DC BLOCK & WITH LIMITER, BLANK: WITHOUT DC BLOCK NOR LIMITER

QTY	DESCRIPTION	PART NO.	FINISH	REV
4	10-32 SCREW, MOUNTING, 1.25in	M524693-C27B	-	2
1	O-RING	2-038-N756-75	-	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE ANGLES ± 1/64 2006 000 ± 1'

TOLERANCE ±.010 PER AMS Y14.5 UNLESS OTHERWISE SPECIFIED

FINISH: ALL SURFACES UNLESS OTHERWISE SPECIFIED

1: GLOSS WHITE #17925 PER FED-STD-595B
 2: LUSTERLESS GRAY #36320 PER FED-STD-595B
 3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
 4: LUSTERLESS BLACK #37038 PER FED-STD-595B
 5: LUSTERLESS BLACK #37030 PER FED-STD-595B

DO NOT SCALE DRAWING

P/N: 3BG1524RV-AP-XTT-1

NOTES: UNLESS OTHERWISE SPECIFIED:

UHF: Other-Band COM.
 S: SMA; S, BNC; F; F.
 M: MCK; MM; MMCK
 N: N/N-Bulkhead
 T, TB: TNC; TNC; Bulkhead

CABLE LENGTH: L: OTHER-BAND COM.
 X: NO CABLE
 M: WITH MAG. MOUNT
 F: CABLE LENGTH (IN)
 R: RIGHT ANGLE CON.