



FAA Approved Facility

L1 GPS & GSM (810-996MHz) Antenna: P/N: 5BG15GSMRV-AP-XTT-1, P/N: 5BG1215GSMRV-AP-XTT-1 (for L1/L2)
 L1 GPS & WIFI (2.4-2.5GHz) Antenna: P/N: 5BG1524RV-AP-XTT-1, P/N: 5BG121524RV-AP-XTT-1 (for L1/L2)
 L1 GPS & Quad Band (0.810-2.5GHz) Antenna: P/N: 5BG15QBRV-AP-XTT-1, P/N: 5BG1215QBRV-AP-XTT-1 (For L1/L2)
 L1 GPS & Wide Band (0.810-5.9GHz) Antenna: P/N: 5BG15WBVR-AP-XTT-1, P/N: 5BG1215WBVR-AP-XTT-1 (For L1/L2)
 L1 GPS & Wide Band 2 (2.4-5.9GHz) Antenna: P/N: 5BG15WB2RV-AP-XTT-1, P/N: 5BG1215WB2RV-AP-XTT-1 (For L1/L2)
 L1 GPS & L/S-Band 2 (1.6-2.5GHz) Antenna: P/N: 5BG15LSRV-AP-XTT-1, P/N: 5BG1215LSRV-AP-XTT-1 (For L1/L2)



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5.040 [128.02]
 2.214 [56.24]
 1.600 [40.64]
 4.237 [107.63]
 4x#201 [Ø5.11] Thru.
 #385 [Ø9.78] X 100"
 R2.257 [R57.33]
 1.119 [28.42]
 5.163 [131.14]
 .898 [22.81]
 .784 [19.91]
 .937 [23.80]
 .143 [3.63]
 1.600 [40.64]
 1.891 [48.03]
 3.319 [84.30]
 4.237 [107.63]
 O-RING P/N: 2-038-N756-75

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	Cellular, GSM, ISM, WLAN, RFID	PCS 802.11b, 802.11g, WiFi, Bluetooth, Hotspot	802.11a, WiFi, ISM	GPS					
	UHF (810-960)	U.S.-BAND (1610-1850-2400-2500) S-BAND (2400-2500)	C-BAND (4400-5850)	L1 GPS: (1575 ± 17)		L2 GPS OPTION: (1227.60 ± 15) MHz			
RADIATION PATTERN:	OMNIDIRECTIONAL			HEMISPHERICAL					
POLARIZATION:	VERTICAL			RHCP		RHCP			
VSWR:	2:1			< 2:1		< 2:1			
IMPEDANCE:	50 ohms			50 ohms		50 ohms			
ANTENNA GAIN (dBi):	> 2 dB			Free Space	16 In G.P.	4 ft G.P.	Free Space	16 In G.P.	4 ft G.P.
ANTENNA GAIN (dBi):	@ 90° Elevation:			+ 4.7	+ 0.4	+ 3.5	+ 3.3	+ 1.5	+ 4.9
	@ 10° Elevation:			- 1.8	- 3.2	- 2.0	- 3.8	- 4.0	- 3.5
	@ 20° Elevation:			- 0.3	+ 1.0	+ 0.8	+ 2.0	+ 2.0	+ 0.1
	@ 30° Elevation:			+ 1.4	+ 0.9	+ 1.8	+ 0.5	+ 0.0	- 1.8
	@ 60 - 90° Elevation:			> 3.9	+3.4/+0.4	> 2.8	> 2.7	+2.4/+1.5	> 3.0
BEAM WIDTH (3dB):	114 Deg.			115 Deg.	139 Deg.	106 Deg.	111 Deg.	75 Deg.	
LIGHTNING PROTECTION:	DC GROUNDING								
LNA OPTION:									
LNA GAIN:				33 dB		35 dB			
LNA NOISE FIGURE:				3.0 dB		3.0 dB			
LNA P1dB Out:				+13 dBm		+13 dBm			
LNA DC POWER:				2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/50mA					
REJECTION @ (-50/+50) MHz:				-41 dB / -59 dB		-40 dB / -40 dB			
@ (-100/+100) MHz:				< -45 dB		< -45 dB			
POWER HANDLING:				1 Watt CW, 2000 Peak 1 Microsec Pulse (+AL)					

MECHANICAL:

SIZE: WIDTH 2.214 in. [56 mm], LENGTH 5.040 in. [128 mm], HEIGHT 5.163 in. [131 mm]

WEIGHT: 14.9 oz. (422g)

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

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B
 GLOSS WHITE #17925 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B

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

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

MOUNTING: FLAT FIXED MOUNT; O-RING & 10-32 MOUNTING SCREWS ARE PROVIDED

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, D0-228, MIL-C-5541, MIL-STD-461E/F, SAE J1455
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-S-901D, MIL-STD-167-1A

2. O-RING AND MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

P/N: 5BG1524RV-AP-XTT-1

SIZE:	Frequency	Other Band	GPS/RX only LNA:	DC BLOCK/LIMITER:
1: 2" SO.	15: L1 GPS	C: (4.4-5.9) GHz	A2: WITH +20 dB LNA	D1: WITH DC BLOCK & WITH LIMITER
1.8: 1.8" SO.	1215: L1/L2 GPS	24: (2.4-2.5) GHz	A3: WITH +33 dB LNA	BLANK: WITHOUT DC BLOCK NOR LIMITER
2: 2.5" DIA.	5: G5 L1/L2 GPS/Glonass	L: (1.5-2.0) GHz	A4: WITHOUT LNA	
3: 3.5" DIA.		GSM: (810-996) MHz		
4: MINI-RFNC		QB: (0.810-2.5) GHz		
		WB: (0.810-5.9) GHz		

QUANTITY	DESCRIPTION	PART NO	FINISH	REV
4	10-32 SCREW, MOUNTING, 1.25in	MS24693-C27B	-	2
1	O-RING	2-038-N756-75	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS TO BE DECIMALS UNLESS OTHERWISE NOTED

± 1/64 .0005 .0015 ± 1"

SCALE: AS SHOWN

TOLERANCE SURF PER AMS Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

FILED & POL. TO R

DATE: 08/20/11

DWG NO: 5BG1524RV-AP-XTT-1

DAYS ON A COMMON & 27,000

MACHINED SURFACES

DO NOT SCALE DRAWING

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

NMO Connector Option is Now Available for Some Antennas