



L1 GPS & WIFI (2.4-2.5GHz) Antenna: P/N: 2BG1524RV-AP-XTT-1, P/N: 2BG121524RV-AP-XTT-1 (for L1/L2)
 L1 GPS & Wide Band 2 (2.4-5.9GHz) Antenna: P/N: 2BG15WB2RV-AP-XTT-1, P/N: 2BG1215WB2RV-AP-XTT-1 (For L1/L2)
 L1 GPS & L/S-Band 2 (1.6-2.5GHz) Antenna: P/N: 2BG15LSRV-AP-XTT-1, P/N: 2BG1215LSRV-AP-XTT-1 (For L1/L2)



ISO 9001:2008/FAA Approved Facility

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

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5.040 [128.02]
 2.214 [56.24]
 1.600 [40.64]
 4.237 [107.63]
 R2.257 [R57.33]
 4xø.201 [ø5.11] Thru.
 ✓ø.385 [ø9.78] X 100"
 1.317 [33.46]
 2.458 [62.43]
 .898 [22.81]
 .784 [19.91]
 .937 [23.80]
 .143 [3.63]
 1.600 [40.64]
 1.891 [48.03]
 .148 [3.77]
 3.319 [84.30]
 4.237 [107.63]
 TNC FEMALE CONNECTOR (OPTION: SMA, N, BNC, or F)
 O-RING P/N: 2-038-N756-75

SPECIFICATIONS

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) (+2.8 TO +28) Volts DC / (30 TO 50) mA
VOLTAGE/CURRENT:		

MECHANICAL:

SIZE: WIDTH 2.214 in. [56 mm], LENGTH 5.040 in. [128 mm], HEIGHT 2.458 in. [62.4 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

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

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS TOLERANCES ARE:
 DECIMALS .005 .010 .015 .020 .030 .040 .050 .060 .070 .080 .090 .100 .125 .150 .175 .200 .250 .300 .375 .500 .625 .750 .875 1.000
 ANGLES ± 1°
 TOLERANCE 5M PER ANSI Y14.5
 REMOVE ALL BURRS
 BREAK CRITICAL EDGES .005 TO .015
 FILETS R .005 TO R .030
 BREAK ANGLES PER MIL-C-8879
 DIMS ON A COMMON & 20°
 MACHINED SURFACES
 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
GPS / GSM BLADE ANTENNA

ORIGINAL DRAWN: S. HUYNH Sep-23-11
 ORIGINAL DESIGNED: S. HUYNH Sep-23-11
 UPDATED: S. HUYNH Jan-24-13
 UPDATE DRAWN: P. TRAN Jan-24-13
 APPROVED: S. HUYNH Jan-24-13

REV: 1
 Dwg No: 3CVE1
 Part No: 2BG1524RV-AP-XTT-1
 SCALE: 1/1
 SHEET 1 OF 1

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: 2BG1524RV-AP-XTT-1

SIZE:	Frequency	Other Band	GPS/RX only LNA:	DC BLOCK/LIMITER:
1: 2" SQ.	15: L1 GPS	C: (4.4-5.9) GHz	A2: WITH +20 dB LNA	DL: WITH DC BLOCK
1.9: 1.9" SQ.	1215: L1/L2 GPS	24: (2.4-2.5) GHz	A3: WITH +33 dB LNA	& WITH LIMITER
2: 2.0" DIA.	G5: L1/L2 GPS/Glonass	L: (1.5-2.0) GHz	P: WITHOUT LNA	BLANK WITHOUT DC BLOCK NOR LIMITER
3: 3.5" DIA.		L/S: (1.6-2.5) GHz		
4: MINI ARINC		GSM: (810-996) MHz		
		QB: (0.810-2.5) GHz		
		WB: (0.810-5.9) GHz		
		WB2: (2.4-5.9) GHz		

CABLE'S LENGTH:	UHF/Other-Band CON.	COLOR:
X: NO CABLE	S: SMA; B: BNC; F: F	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MM/CX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN)	N: NIN; Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SB: Blade, S3: Rod

NMO Connector Option is Now Available for Some Antennas