



FAA Approved Facility

Active L1L2 / Passive Iridium / Dual Quad-Band Antenna For Deep Water Application
 P/N: 5BGL1L2IR2WB-AP3-XS4C-UU-CORDC (12" SMA Cable, With Dual Quad-Band)
 P/N: 5BGL1L23WB-AP3-XS4C-UU-CORDC (12" SMA Cable, With Tri Quad-Band, No Iridium)
 Other Frequencies and Connectors Options are Available

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



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5.026 [127.66]
 2.200 [55.88]
 4X ϕ .201 [ϕ .511] THRU
 \checkmark ϕ .390 [9.91] X 100°
 5.137 [130.48]
 .850 [21.58]
 .450
 .060 [1.52]
 .090 [2.29]
 .060 [1.52]
 .050 [1.27]
 1/2-20 UNC
 (4X) SMA MALE CABLE
 O-RING
 PN: 2-038-N756-75
 1.600 [40.64]
 2X
 ϕ 1.260 [ϕ 32.00]
 ϕ .880 [ϕ 22.35]
 ϕ .750 [ϕ 19.05]
 ϕ .560 [ϕ 14.22]
 2X 4.237 [107.63]

P/N: 5BGL1L2IR2WB-AP3-XS4C-UU-CORDC

CONNECTOR:
 DGO: DGO
 S: SMA, Q: QMA
 N: N, T: TNC

COLOR:
 -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: DESERT TAN #33448 PER FED-STD-595B
 -UU: TEFLON COATED FOR UNDERWATER APPLICATION

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	GPS		IRIDIUM	QUAD-BAND	
	L1 GPS: (1575 ± 17)	L2 GPS (1227.60 ± 15)	(1610-1626)	Cellular, GSM, ISM, WLAN, RF ID	PCS, 802.11b, 802.11g, WFI, Bluetooth, Hotspot
RADIATION PATTERN:	HEMISPHERICAL			OMNIDIRECTIONAL	
POLARIZATION:	RHCP		RHCP	VERTICAL	
VSWR:	< 2:1		< 2:1	2:0:1	
IMPEDANCE:	50 ohms		50 ohms	50 ohms	
ANTENNA GAIN:	Free Space	16 In G.P., 4 ft G.P.	Free Space	16 In G.P., 4 ft G.P.	F.S./G.P.
@ 90° Elevation:	+4.7	+0.4	+3.5	+1.5	+4.9
@ 20° Elevation:	+1.9	+3.2	+2.0	+4.0	+3.8
@ 30° Elevation:	-0.3	+1.0	+0.8	-2.0	-0.1
@ 60° Elevation:	+1.4	+0.9	+1.8	-0.5	0.0
@ 90° Elevation:	> 3.9	+3.4+0.4	> 2.8	> 2.7	+2.4+1.5
BEAM WIDTH (3dB):	114 Deg.	118 Deg.	139 Deg.	106 Deg.	111 Deg.
LIGHTNING PROTECTION:	DC GROUNDING				
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)/450mA				
REJECTION @ (-50+50) MHz:	-11 dB / -59 dB		-40 dB / -40 dB		
@ (-100+100) MHz:	< -65 dB		< -65 dB		
POWER HANDLING:	1 Watt CW, 2000 Peak 1 Microsec Pulse (AL)				

MECHANICAL:

SIZE: WIDTH: 2.28 in. [58 mm], LENGTH: 5.11 in. [130 mm], HEIGHT: 7.15 in. [182 mm]

WEIGHT: 2.26 lbs., (1.03 kg)

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

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 LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: SMA MALE CABLE (OPTIONAL: TNC, N, BNC)

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]
 ALTITUDE: 70,000 ft.
 VIBRATION: 10 G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DO-160D, MIL-C-5441, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
1	O-RING	2-038-N756-75	-	-	2
4	SCREW, MOUNTING	91781A844	-	-	1

ANTCOM CORP. TORRANCE, CALIFORNIA

L1L2 / Iridium / Quad-Band ANTENNA

SCALE 1/1

SHEET 1 OF 1