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10.236 [259.99]  
5.026 [127.67]  
2.200 [55.88]  
3.937 [100.00]  
3.500 [88.90]  
1.200 [30.48]  
3.150 [80.01]  
2.874 [73.00]  
1.535 [39.00]  
1.291 [32.79]  
6.496 [165.00]

4X  $\phi$ .346 [ $\phi$ 8.79] THRU C'BORE  $\phi$ .650 [ $\phi$ 16.51] X .316 DEEP (M8 SOCKET SCREWS P/N: 92290A802 PROVIDED)

4X  $\phi$ .476 [ $\phi$ 12.09] 4X O-RING P/N: AS568A-011

4X  $\phi$ .316 DEEP (M8 SOCKET SCREWS P/N: 92290A802 PROVIDED)

N-F BULKHEAD CONNECTOR  
N FEMALE CONNECTOR

GSM/UMTS GPS WLAN

SILICON GASKET P/N: 3BG15P1001-2-TR (PROVIDED)

P/N: Choo-ChooG3A-XNNN-6

Frequency	GPS/RX only LNA	CABLE'S LENGTH:	UHF/Other-BAND CON.	COLOR:
15: L1 GPS	P: WITHOUT LNA	X: NO CABLE	S: SMA; B: BNC; F: F	-1: GLOSS WHITE #17925 PER FED-STD-595B
12: L1/L2 GPS	A2: WITH 20 dB LNA	M: WITH MAG. MOUNT	M: MCX; MM; MMCX	-2: LUSTERLESS GRAY #36390 PER FED-STD-595B
G3: L1 GPS/Glonass/L-Band	A1: WITH 33 dB LNA	N: CABLE LENGTH (IN)	N: NIN-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
G5: L1/L2 GPS/Glonass/L-Band	A4: WITH 43 dB LNA	R: RIGHT ANGLE CON.	T: T; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
GNSS: GNSS				-5: LUSTERLESS RED #31136 PER FED-STD-595B

**ELECTRICAL: SPECIFICATIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED	REVISIONS												
					ZONE	REV	DESCRIPTION	DATE	APPROVED								
					<b>G5</b>												
					<b>G3</b>												
					<b>COM</b>												
FREQUENCY:					L5 GPS E5, E5a, E5b Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E5 Galileo B3 Compass	Omnistar / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS	GSM/UMTS WLAN 870-960 1800-2300 2300-2400 2400-2700 3000-3700 4000-5875						
RADIATION PATTERN:					HEMISPHERICAL												
POLARIZATION:					RHCP												
VSWR:					< 2.0:1												
IMPEDANCE:					50 ohms												
ANTENNA GAIN (dBic):					Free Space sin G.P												
@ 90° Elevation:					-4	-3	+2.6	+3.2	+1.8	+1.8	+1.2	+0.8	+4.0	+3.0	+3.7	+2.2	(810 - 960 MHz) +5.3
@ 10° Elevation:					-11	-11	-3.7	-3.6	-4.9	-5.4	-6.3	-5.4	-3.5	-3.0	-4.0	-4.1	(1600 - 2300 MHz) +7.5
@ 20° Elevation:					-10	-10	-2.8	-2.2	-4.1	-3.7	-4.8	-3.8	+1.9	+1.5	+2.6	+2.6	(2300 - 2450 MHz) +1.3
@ 30° Elevation:					-9	-8	-1.4	-0.2	-2.4	-1.8	-3.5	-2.9	-0.6	-0.5	-1.1	-1.6	(2400 - 2700 MHz) +6.4
@ 60-90° Elevation:					>+6	>-5	>+1.4	>+2.2	>+0.5	>+0.6	>+0.2	>+2.6	>+2.4	>+1.5	>+1.5	(3400 - 3700 MHz) +2.4	
BEAM WIDTH (3dB):					95 Deg.	100 Deg.	100 Deg.	107 Deg.	95 Deg.	105 Deg.	90 Deg.	100 Deg.	90 Deg.	105 Deg.	85 Deg.	100 Deg.	(4000 - 5875 MHz) +4.8
AXIAL RATIO:					3 dB	3 dB	1.5 dB	1.5 dB	1 dB	1 dB	3 dB	1 dB	1 dB	5 dB	2.5 dB	N/A	
LIGHTNING PROTECTION:					DC GROUNDING												
LNA GAIN:					36 dB												
LNA NOISE FIGURE:					2.7 dB												
LNA P1dB Out:					+13 dBm												
LNA DC POWER:					2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/-50mA												
FILTERS & OUT OF BAND REJECTION:					For L1 or L1/L2: 36dB@161MHz (HdUm); 44dB@1625MHz, 55dB@1640MHz, 67dB@1660MHz (Inmarsat/Thuraya)												
POWER HANDLING:					1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)												

**MECHANICAL:**

SIZE: WIDTH 10.24 in. [260 mm], LENGTH 3.94 in. [100 mm], HEIGHT 3.50 in. [88.9 mm]

WEIGHT: 25.0 oz. (709g)

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

COLOR: LUSTERLESS RED #31136 PER FED-STD-595B

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

CONNECTOR: N FEMALE, N FEMALE BULKHEAD (OPTION: SMA, N, TNC)

**ENVIRONMENTAL:**

TEMPERATURE: -76°F TO +185°F [-60°C TO +85°C]

ALTITUDE: 70,000 ft.

VIBRATION: 30 G's

LEAKAGE: HERMETICALLY SEALED

INGRESS: IP 68

EN 50155, EN 50121-3-2, 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

QTY	DESCRIPTION	PART NO	REV
1	OPTIONAL M10 56x115mm MOUNTING ADAPTER	P/N: 509-10, Item 509-M10	4
1	SILICON GASKET	P/N: 3BG15P1001-2-TR, Item 546-TR	3
4	TOP O-RING (FOR SCREW)	P/N: AS568A-011, Item 553-011	2
4	SCREW, SOCKET, M8 X 1.25, 16.4MM L	P/N: 92290A802, Item 590M8-1	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS AND FRACTIONS UNLESS OTHERWISE INDICATED

TOLERANCE  $\pm$ MM PER ASH 1146  
HOLE SIZE PER ASH 1146  
HOLE POSITION PER ASH 1146  
SCREW THREADS PER MIL-S-8879  
DIMENSIONS  $\pm$  0.005 UNLESS OTHERWISE INDICATED  
MACHINED SURFACES  $\sqrt{R}$

ANTCOM CORP. TORRANCE, CALIFORNIA

GPS / WIFI BLADE ANTENNA

DATE: 04-09-14  
DRAWN: S. HUYNH  
CHECKED: S. HUYNH  
APPROVED: S. HUYNH

SCALE 1/1

SHEET 1 OF 1