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10.236 [259.99]  
5.026 [127.67]  
2.200 [55.88]  
3.937 [100.00]  
3.500 [88.90]  
0.500 [12.70]  
0.716 [18.19]  
1.200 [30.48]  
3.150 [80.01]  
2.874 [73.00]  
1.535 [39.00]  
1.291 [32.79]  
6.486 [165.00]

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

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

N-F BULKHEAD CONNECTOR  
N FEMALE CONNECTOR

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:
L1: L1 GPS	P: WITHOUT LNA	X: NO CABLE	S: SMA; B: BNC; F: F	-1: GLOSS WHITE #17920 PER FED-STD-595B
L2: L1/L2 GPS	A2: WITH 20 dB LNA	M: WITH MAG. MOUNT	M: MCX; MM: MMX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
G3: L1 GPS/Glonass/L-Band	A: WITH 33 dB LNA	#: CABLE LENGTH (IN)	N: N; N-S: 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.	L, T, B: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
GNSS: GNSS				-6: LUSTERLESS RED #31136 PER FED-STD-595B

**ELECTRICAL:**

**MECHANICAL:**

**ENVIRONMENTAL:**

**SPECIFICATIONS:**

**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED

G5		G3		COM	
L5 GPS E5, E5a Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E5 Galileo B3 Compass	OmiSTAR/L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
1176.45 ± 12 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15 MHz	1227.60 ± 12 MHz 1207.14 ± 10 MHz	1262.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1603 ± 7.0 MHz
FREQUENCY:		HEMISPHERICAL		VERTICAL	
RADIATION PATTERN:		RHCP		RHCP	
POLARIZATION:		< 2.0:1		< 2.0:1	
VSWR:		50 ohms		50 ohms	
IMPEDANCE:		50 ohms		50 ohms	
ANTENNA GAIN (dBic):		Free Space Sin G,P		Free Space Sin G,P	
@ 90° (ZENITH):		-4 -3 +2.6 +3.7 +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 -6.4 -3.5 -3.0 -4.0 -4.1		(1600 - 2300 MHz) +2.6	
@ 20° Elevation:		-10 -10 -2.8 -2.2 -4.1 -3.7 -4.8 -3.8 -1.9 -1.5 -2.5 -2.6		(2300 - 2400 MHz) +7.3	
@ 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) +7.3	
@ 60 - 90° Elevation:		> +1.4 > +2.2 > +0.5 > +0.8 > +0.2 > +2.4 > +2.2 > +1.5		(2400 - 2700 MHz) +7.3	
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.		(3400 - 3700 MHz) +5.4	
AXIAL RATIO:		3 dB 3 dB 1.5 dB 1 dB 1 dB 1 dB 1 dB 1 dB 1 dB 5 dB 2.5 dB		(4000 - 5075 MHz) +4.9	
LIGHTNING PROTECTION:		35 dB 35 dB 35 dB 33 dB 33 dB 33 dB		N/A	
LNA GAIN:		2.7 dB 2.7 dB 2.7 dB 2.7 dB 2.7 dB			
LNA P1dB OUT:		+13 dBm +13 dBm +13 dBm +13 dBm +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@1616MHz (1dB), 44dB@1625MHz, 55dB@1640MHz, 67dB@1660MHz (Inmarsat/Thuraya) For G3, G5 or GNSS: 80dB@1616MHz (1dB), 38dB@1625MHz, 45dB@1640MHz, 73dB@1680MHz (Inmarsat/Thuraya)			
POWER HANDLING:		1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL)		100 Watt	

**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, DO-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

DESCRIPTION	PART NO.	QTY
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 653-011	2
4 SCREW, SOCKET, MB X 1.25, 16-4MM L	P/N: 92290A802, Item 590MB-1	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS OVER UNDER ANGLES DECIMALS PER ANG Y14.4 REMOVE ALL BURRS FILE TO .000 TO .010 .0005 THRU .010 TO .010 .0005 THRU .010 TO .010 DIA'S ON A CORDON & .000 MACHINED SURFACES

DO NOT SCALE DRAWING

SCALE: 1/1

SHEET 1 OF 1