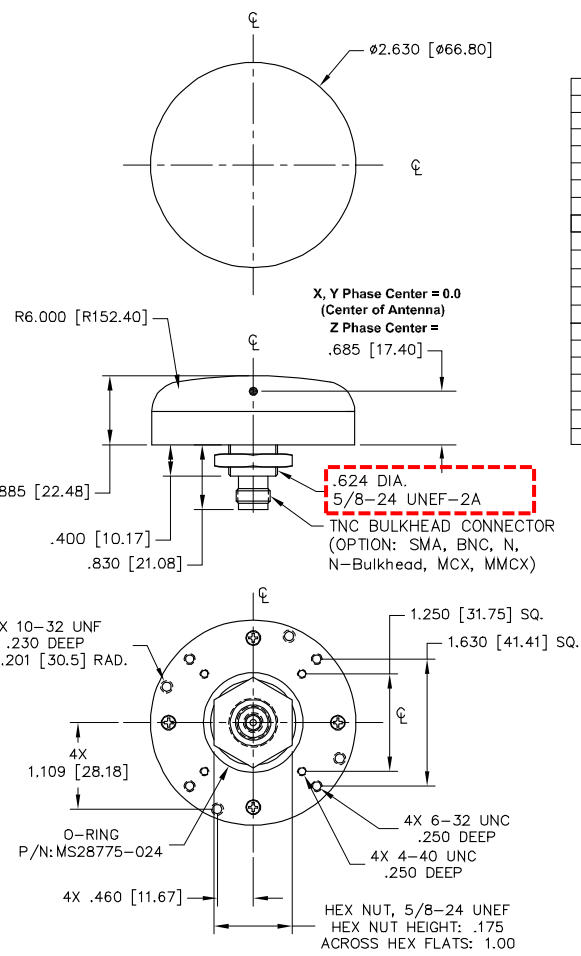
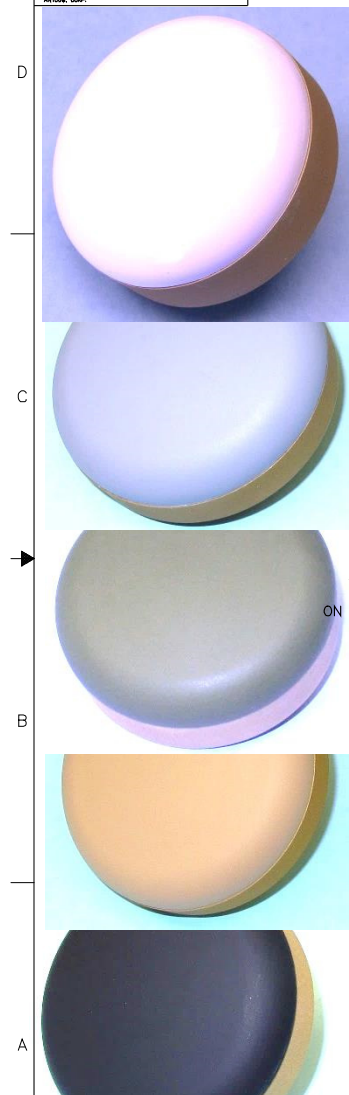


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SPECIFICATIONS

ZONE	REV	REVISIONS			
		DESCRIPTION	DATE	APPROVED	
A		NEW BASEPLATE	05/21/15	S.H	

ELECTRICAL:		FREQUENCY:					
		L1: (1575.42 ±12) MHz			L2: (1227.60 ±12) MHz		
RADIATION PATTERN:		HEMISPHERICAL					
POLARIZATION:		RHCP			RHCP		
VSWR:		< 1.5:1			< 1.5:1		
IMPEDANCE:		50 ohms			50 ohms		
ANTENNA GAIN (dBic):		Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):		+5.0	+4.7	+3.1	+0.7	+3.3	+4.5
@ 10 ° Elevation:		-2.1	-1.8	-1.9	-5.8	-3.8	-3.5
@ 20 ° Elevation:		-0.6	-0.3	+0.6	-4.3	-2.0	-0.8
@ 30 ° Elevation:		+0.9	+1.4	+1.7	-3.4	-0.5	+1.4
@ 60 - 90 ° Elevation:		> 4.0	> 3.9	> 2.4	> -0.9	> 2.7	> 2.2
BEAM WIDTH (3dB):		103 Deg.	114 Deg.	143 Deg.	94 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:		2 dB					
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)/<50mA					
REJECTION @ (-50/+50) MHZ		-41 dB / -59 dB			-40 dB / -40 dB		
@ (-100/+100) MHZ		< -65 dB			< -65 dB		
POWER HANDLING:		1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					

MECHANICAL:

SIZE: DIAMETER: 2.63 in. [66.8 mm]
 HEIGHT: 0.885 in. [22.48 mm]

WEIGHT: 5.9 oz. (167.3 g)

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

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

CONNECTOR: TNC FEMALE BULKHEAD
 (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE:

ATP-GPS-L1L2-100



SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.8: 1.9" SQ.	15: L1 ONLY	AL: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		PL: WITHOUT LNA AND THINNER (HEIGHT = 0.58")
4: MIN. ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

P/N: 2G1215A-XTNB-1

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
F: CABLE LENGTH (IN)	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
M: MAG. N: NO MAG.	N: N: N: N: Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	WB: TNC-Bulkhead	-5: DESERT TAN #33446 PER FED-STD-595B
	N Connector Thread to Bulkhead	

QUANTITY REQD.	DESCRIPTION	PART NO.	FINISH	ITEM NO.
1	O-RING, (94115K024) Item 553	MS28775-024	-	3
1	ADHESIVE GASKET	123456-3M-2G	-	2
1	HEX NUT AND LOCK WASHER, Item 489N	489N	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .0002 ± .1°

TOLERANCE SYM PER ANSI Y14.5 REMOVE ALL DIMS BREAK EXTERNAL EDGES .005 TO .015 DRILL & REAM PER MIL-C-8879 DRILL OR A CORNER & 2X .015 MACHINED SURFACES ✓

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
 OUTLINE DRAWING
 L1/L2 ACTIVE OR PASSIVE GPS ANTENNA
 1215: L1/L2
 15: L1 ONLY
 P: TRAN
 1215: L1/L2
 15: L1 ONLY
 P: TRAN
 1215: L1/L2
 15: L1 ONLY
 P: TRAN

SCALE: 1/1 SHEET 1 OF 1

3. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
 2. MOUNTING HEX NUT AND LOCK WASHER ARE SUPPLIED BY ANTCOM CORPORATION
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS (mm)
 NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas