

TOP VIEW

6.427 [163.25] SQ.

SIDE VIEW

5.566 [141.38]

.823 [20.90]

6.427 [163.25]

5/8-11 UNC
.673 DEEP
(316 STAINLESS STEEL MOUNT)

N FEMALE CONNECTOR

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

	OmniStar, L6 Galileo, L-Band, B1 Compass	BEACON (IALA)	
FREQUENCY:	(1525 - 1560) MHz	(283.5 - 325) KHz	
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP	RHCP	
VSWR:	< 2.0:1	< 2.0:1	
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	
@ 90 ° (ZENITH):	+ 2.5	+ 1.6	
@ 10 ° Elevation:	- 4.7	- 2.4	
@ 20 ° Elevation:	- 3.8	+ 0.7	
@ 30 ° Elevation:	- 2.1	+ 2.3	
@ 60 - 90 ° Elevation:	> + 1.0	> + 2.1	
BEAM WIDTH (3dB):	90 Deg.	140 Deg.	
AXIAL RATIO:	1.0 dB		
LIGHTNING PROTECTION:	INPUT: DC GROUNDING; OUTPUT: EN61000-4-5 Level 4		
LNA:	35 dB Gain	35 dB Gain	30 dB Gain
LNA NOISE FIGURE:	2.4 dB	2.4 dB	2.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm	+13 dBm
LNA DC POWER:	(±2.8 to ±24 V) < 60 mA		
FRONT END FILTER REJECTION:	(1625 - 1660) MHz < -55 dB		
POWER HANDLING:	Front End Limiter, 4 Watt CW, +50dBm Microsec Pulse Input		

MECHANICAL:

SIZE: 6.43 in SQ. [163.2mm SQ.]
HEIGHT: 5.57 in [141.4mm]

WEIGHT: 13.6oz. (385.5 g)

MATERIAL: MOUNT: 316 STAINLESS STEEL
RADOME/ ENCLOSURE: TEFLON, CORROSION RESISTANCE, SKYDROL RESISTANCE AND FIRE RETARDANT

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

ENVIRONMENTAL:

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

ENCLOSURE RATING: IP69K
HERMETICALLY SEALED
EP455

FEDERAL & MILITARY SPECIFICATIONS:

BS IEC 60945, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

BOTTOM VIEW

6.427 [163.25] SQ.

1.039 [26.39]

Ø4.073 [Ø103.47]

RUGGEDIZED TEFLON ENCLOSURE

316 STAINLESS STEEL MOUNT

P/N: PyramidBeacon-LBANDR-AN1

FREQUENCY:	POLARIZATION:	LNA:	CONNECTOR:	COLOR:
L1L2: 1215 MHz	R: RHCP	P: WITHOUT LNA	S: SMA; Q: QMA	-1: TEFLON/WHITE
L-BAND: 1525 - 1560 MHz	L: LHCP	A2: WITH LNA (22 dB)	T: TNC	
G3E L1 GLONASS/L-BAND		A2: WITH LNA (33 dB)	N: N	
G3E L1L2 GLONASS/L-BAND/L5		A4: WITH LNA (43 dB)		
G5: GNSS				
G8S: GNSS/S-BAND				

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

NOTES: UNLESS OTHERWISE SPECIFIED:

1	-	-	-	1
QUANTITY REQD	DESCRIPTION	PART NO	FINISH	REF NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: DECIMALS: ANGLES: ± 1/64 .005 .005 ± 1°

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

FILED IN ACC TO USE

SCREW THREADS PER MIL-C-8879

FINISH ON A CORNER & 2°-10°

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

L-BAND/ BEACON ANTENNA

REV: D 3CVE1

SCALE 1/1

SHEET 1 OF 1