

NOTICE OF PROPRIETARY RIGHTS
 THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO ANY OTHER PARTY IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		ADDED CUSTOMER'S CONNECTOR	05/29/12	S.H.
B		REVISED CABLE TOLERANCE AND VSWR	09/20/12	S.H.
C		REVISED CABLE LENGTH PER AUCON AND REMOVED L2 DATA	09/25/12	S.H.

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 2.0:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 in G.P.
	@ 90 ° (ZENITH):	- 0.8 + 3.8
	@ 10 ° Elevation:	- 9.3 - 4.3
	@ 20 ° Elevation:	- 6.8 - 2.2
	@ 30 ° Elevation:	- 5.2 - 0.7
@ 60 - 90 ° Elevation:	> - 2.1 > 2.5	
BEAM WIDTH (3dB):	100 Deg.	120 Deg.
AXIAL RATIO:	2.5 dB	
LIGHTNING PROTECTION:	DC GROUNDING	

LNA OPTION:

LNA GAIN:	24.0 dB
LNA NOISE FIGURE:	1.8 dB
LNA P 1dB Out:	+16 dBm
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

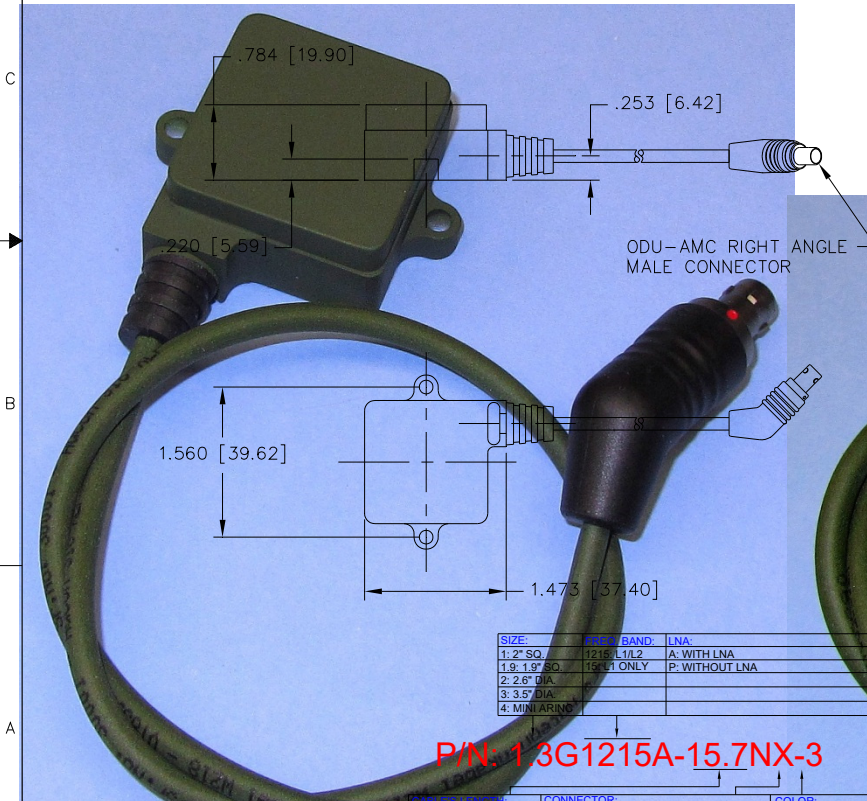
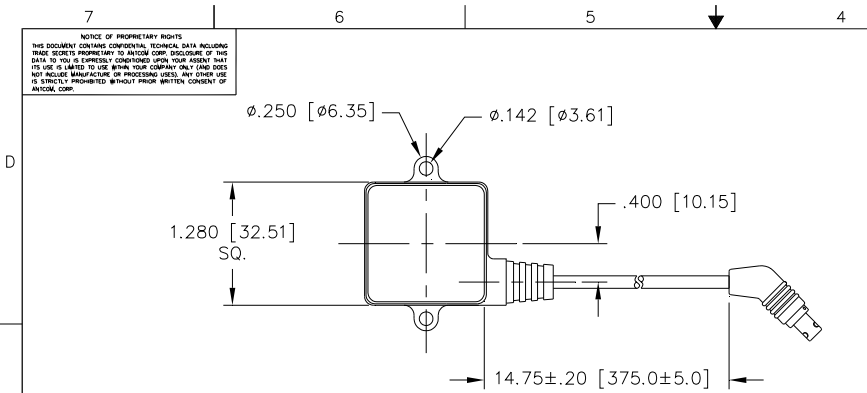
SIZE:	1.280 in.[32.51 mm] SQ.
HEIGHT:	0.784 in. [19.90 mm]
WEIGHT:	1.7 oz. (48.2 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT ODU-AMC 15.7" CABLE RIGHT ANGLE MALE CONNECTOR

ENVIRONMENTAL:

TEMPERATURE:	-67 ° F TO +195 ° 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-STD-883C, MIL-E-5400, MIL-I-15207, MIL-STD-100, AND SAE J1455
ACCEPTANCE TEST PROCEDURE:	ATP-GPS-L112100



SIZE	FINISH	BAND	LNA
1: 2" SQ.	1216L1/L2	A: WITH LNA	
1.9: 1.9" SQ.	15 L1 ONLY	P: WITHOUT LNA	
2: 2.6" DIA.			
3: 3.5" DIA.			
4: MINI ARING			

QUANTITY	RECD	DESCRIPTION	PART NO.	SPECIFICATION	MATERIAL	FINISH	ITEM NO.
1		ADHESIVE GASKET	123450				1
-2	-1						

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
FRACTIONS	DECIMALS
± 1/64	± .001
	± .0005
	± .0002
	± .0001

ANTCOM CORP. TORRANCE CALIFORNIA
 OUTLINE DRAWING
 L1 ACTIVE or PASSIVE
 GPS ANTENNA
 PART NO. D 3CVE1 | P/N: 1.3G15A2F-15.7NX-3
 SCALE 1/1 | SHEET 1 OF 1

- NOTES: UNLESS OTHERWISE SPECIFIED:
- | | | | |
|---|----------------------|-------------------------------------|--|
| 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm] | CABLE LENGTH: | CONNECTOR: | COLOR: |
| | X: NO CABLE | S: SMA; RS: R-SMA; P: PINS; M: MCX; | -1: GLOSS WHITE #17925 PER FED-STD-595B |
| | M: 1/8" N. NO MAG. | MM: MMCX; SMB; SSMA; SSMB; SSMC; | -2: LUSTERLESS GRAY #36320 PER FED-STD-595B |
| | P: CABLE LENGTH (IN) | SSMP; T: TB; TNC; TNC-Bulkhead | -3: OLIVE DRAB GREEN #34094 PER FED-STD-595B |
| | RC: RIGHT ANGLE CON. | L: RM: Right Angle Male Lemo | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |

P/N: 1.3G1215A-15.7NX-3

NMO Connector Option is Now Available for Some Antennas