ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

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SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	VSWR 2.0	11/14/14	S.H.
	B	ANTENNA HEIGHT	05/15/15	S.H.

ELECTRICAL:

	GPS		IRIDIUM	
FREQUENCY:	L1: (1575.42 ±13)		(1610.0 - 1626.5) MHz	
RADIATION PATTERN:	HEMISPHERICAL		HEMISPHERICAL	
POLARIZATION:	RHCP		RHCP	
VSWR:	< 1.5:1		< 2.0:1	
GAIN (dB):	F.S.	4 ft G.P	4 ft G.P.	Free Space
@ 90° (Zenith):	+ 4.6	+ 2.9	+4.9	+5.0
@ 10° Elevation:	- 2.5	- 1.8	-1.0	-2.5
@ 20° Elevation:	- 1.1	+ 0.7	+1.5	-0.5
@ 30° Elevation:	+ 0.5	+ 1.7	+2.4	+1.0
@ 60° to 90°Elevation:	> 3.6	> 2.1	>+3.3	>+2.7
BEAM WIDTH (3dB):	103 °	146 °	129 °	98 °-106 °
AXIAL RATIO @ Zenith:	2 dB		2 dB	
POWER HANDLING:	1 Watt		30 W	
LIGHTNING PROTECTION:	DC GROUNDING		DC GROUNDING	
FILTER (REJ. @1616 MHz):	> 60 dB			
LNA GAIN:	(33.0+/-1.0) dB, 20dB (-A2- Option)		N/A	
LNA P 1dB Out:	+16 dBm		N/A	
LNA NOISE FIGURE:	2.8 dB (Filter loss is Included)		N/A	
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (30 TO 50) mA		N/A	

MECHANICAL:

SIZE: WIDTH: 2.28 in. [58 mm], LENGTH: 5.11 in. [130 mm],
HEIGHT: 2.995 in. [76.07 mm] FOR DGO CONNECTOR
HEIGHT: .960 in. [24.38 mm] FOR OTHER CONNECTORS

WEIGHT: <2.26 lbs. (1.03 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B
GLOSS WHITE #17925 PER FED-STD-595B
OLIVE DRAB GREEN #34031 PER FED-STD-595B
LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

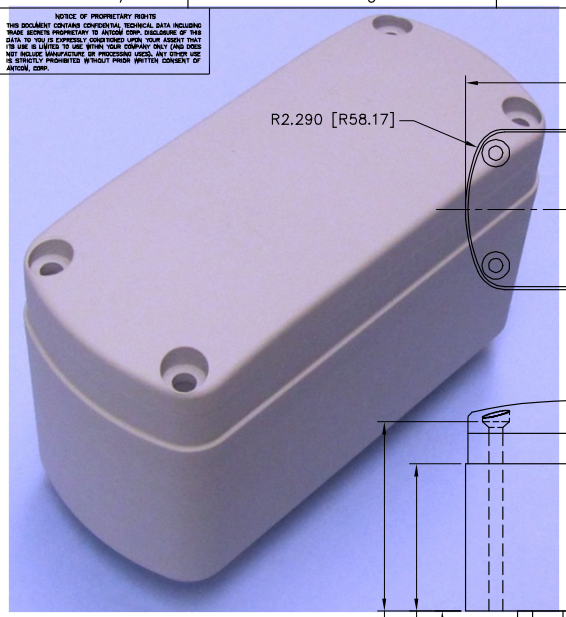
CONNECTOR: DGO FEMALE CONNECTORS
(OPTIONAL: SMA, N, BNC, TNC)

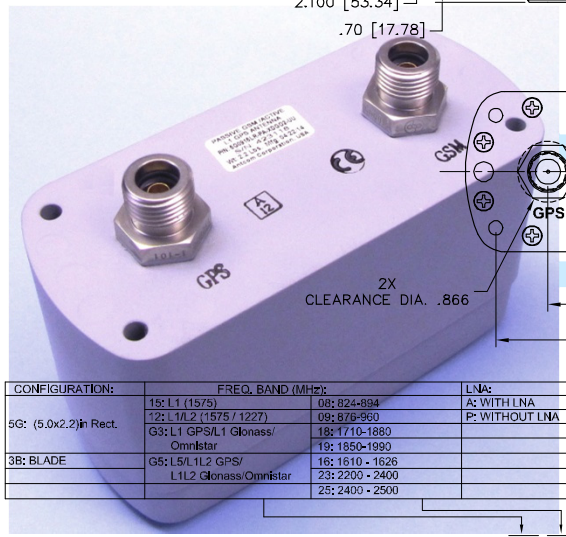
ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]
ALTITUDE: 70,000 ft.
VIBRATION: 10 G's
LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DO-160D, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810





CONFIGURATION:	FREQ. BAND (MHz):		LNA:	FEMALE CONNECTOR:	COLOR:
5G: (5.0x2.2)in Rect.	15: L1 (1575)	08: 824-894	A: WITH LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
	12: L1/L2 (1575 / 1227)	09: 870-960	P: WITHOUT LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	G3: L1 GPS/L1 Glonass/ Omnistar	18: 1710-1880		N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
		19: 1850-1990		T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
3B: BLADE	G5: L5/L1L2 GPS/ L1L2 Glonass/Omnistar	16: 1610 - 1626		B: BNC Female	-5: TAN #: FS 23446 or 33446, FED-STD-595
		23: 2200 - 2400		DGO: DGO	
		25: 2400 - 2500			UU: Gray Color Teflon Coating

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	ITEM NO
4	10-32 SCREW, 3.5" L (Item 584-3.5)	91781A844	–	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XXX ±.030, .XXXX ±.015, ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREAD PER MIL-S-8879
DIA'S ON A COMMON ⌀ ⌀.005 T.P.I.
MACHINED SURFACES
DO NOT SCALE DRAWING

ORIGINALLY DRAWN	S. HUYNH	Dec-13-02
ORIGINALLY DESIGNED	S. HUYNH	Dec-13-02
UPDATED	S. HUYNH	Mar-18-14
UPDATE DRAWN	P. TRAN	Mar-18-14
APPROVED	S. HUYNH	Mar-18-14

ANTCOM CORP. TORRANCE CALIFORNIA

Active L1 GPS / Iridium ANTENNA

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	S5GIR1516RR-AP-XDGO2-UU	B

SCALE 1/1 SHEET 1 OF 1

P/N: S5GIR1516RR-AP-XDGO2-UU

NMO Connector Option is Now Available for Some Antennas