RHCP RX-Inmarsat/GPS & LHCP Thuraya/TX-Globalstar Antenna
P/N: 3x2G1516RL-P-XMMMM-4
(3.64"x 2.50"x 0.43"), Front Mount (Other Configurations are Available)

ISO 9001:2008/FAA Approved Facility

Antenna Mounts: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf

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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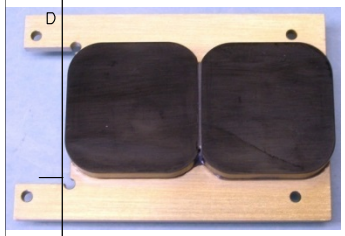
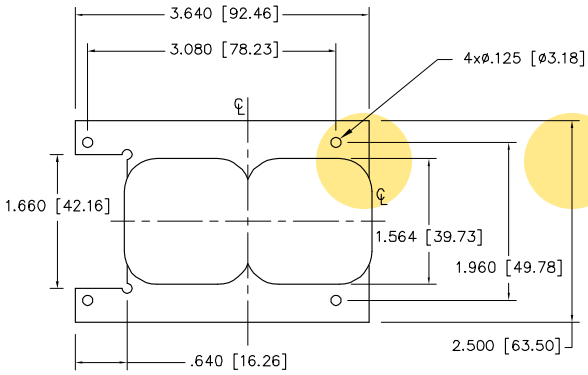
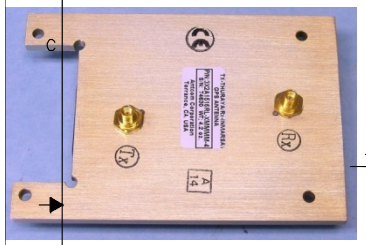
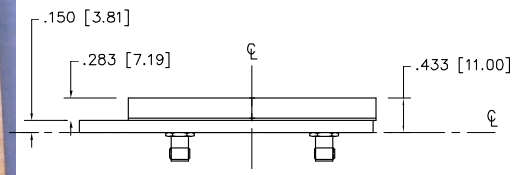




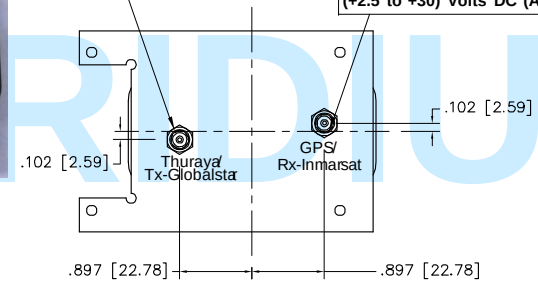




Thuraya/Tx-Globalstar: MMCX FEMALE with 20in Cable, (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

GPS/Rx-Inmarsat: MMCX FEMALE with 20in Cable, (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

(+2.5 to +30) Volts DC (Active)



SPECIFICATIONS

ELECTRICAL:

	Thuraya & Tx-Globalstar		Rx-Inmarsat/GPS	
FREQUENCY:	(1610.0 - 1626.5) MHz		(1525 -1580) MHz	
RADIATION PATTERN:	HEMISPHERICAL		HEMISPHERICAL	
POLARIZATION:	LHCP		RHCP	
VSWR:	< 1.5:1		< 1.5:1	
GAIN (dB):	4 ft G.P.	Free Space	F.S.	4 ft G.P
@ 90° (Zenith):	+4.9	+5.0	+ 4.6	+ 2.9
@ 10° Elevation:	-1.0	-2.5	- 2.5	- 1.8
@ 20° Elevation:	+1.5	-0.5	- 1.1	+ 0.7
@ 30° Elevation:	+2.4	+1.0	+ 0.5	+ 1.7
@ 60° to 90°Elevation:	>+3.3	>+2.7	> 3.6	> 2.1
BEAM WIDTH (3dB):	129 °	98 °-106 °	103 °	146 °
AXIAL RATIO @ Zenith:	2 dB		2 dB	
POWER HANDLING:	30 W		1 Watt	
LIGHTNING PROTECTION:	DC GROUNDING		DC GROUNDING	
LNA OPTION				
LNA GAIN:	N/A		(33.0+/-1.0) dB, 20dB (-A2- Option)	
LNA P 1dB Out:	N/A		+16 dBm	
LNA NOISE FIGURE:	N/A		2.8 dB (Filter loss is Included)	
VOLTAGE/CURRENT:	N/A		(+2.8 TO +28) Volts DC / (30 TO 50) mA	

MECHANICAL:

SIZE: WIDTH:1.56 in. [39.7 mm], LENGTH:3.64 in [92.5 mm], HEIGHT:0.63 in. [16.0 mm]

WEIGHT: 3.5 oz. (99 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING

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

CONNECTOR: Thuraya/Tx-Globalstar: MMCX FEMALE (J1, Red); GPS/Rx-Inmarsat: MMCX FEMALE (J2, Blue). Available in Other Con. Types

MOUNTING: FLAT FRONT (2 x 6-32 SCREWS), BACK (4 x 2-56 SCREWS), or FLUSH MAGNET

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

ITEM NO	QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH
4				–	–
3					
1				–	–

PARTS LIST

CONFIGURATION:	FREQ. BAND 1/2 (MHz):	BAND 1/2 Polarizations:	GPS LNA:	CABLE'S LENGTH	GPS/IRIDIUM CONNECTOR:
1: 2" SQ. (FLAT)	1516:Rx-Inmarsat/GPS& Thuraya/Tx-Gobalstar	RL: RHCP/LHCP	A: WITH 33dB LNA	X: NO CABLE	S: SMA; P: PINS
1.9: 1.9" SQ. (FLAT)		LR: LHCP/RHCP	P: WITHOUT LNA	MN: Flush Mag. Mount	M: MCX; MM: MMCX
2: 2.6" DIA. (FLAT)	1216:Rx-Inmarsat/L1/L2 GPS& Thuraya/Tx-Gobalstar	RR: RHCP/RHCP	A1: WITH 12dB LNA	#: Cable Length (in)	N: N; NB: N-Bulkhead
3: 3.5" DIA. (FLAT)		LL: LHCP/LHCP	A2: WITH 20dB LNA	R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead
4: MINI ARINC (FLAT)					
53: (HELIX ROD)	XXYY: Any other 2 bands				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: 1.5G1516RL-P-XSS-4

COLOR
-1: GLOSS WHITE #17925 PER FED-STD-595B
-2: LUSTER LESS GRAY #36320 PER FED-STD-595B
-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
-4: LUSTER LESS BLACK #37038 PER FED-STD-595B
-5: DESERT TAN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .020, .XXX± .010, ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ℄ Ø .005 M A B
MACHINED SURFACES 125
DO NOT SCALE DRAWING

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH June-27-07
CAD FILE NO

ANTCOM CORP. TORRANCE, CALIFORNIA

Low Profile Ruggedized Thuraya/Tx-Gobalstar & Rx-Inmarsat/GPS Antenna

SIZE D | CAGE NO 3CVE1 | DRAWING NO 3X2A1516RL-X-XMMMM-4 | REV –

SCALE 1/1 | SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas