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

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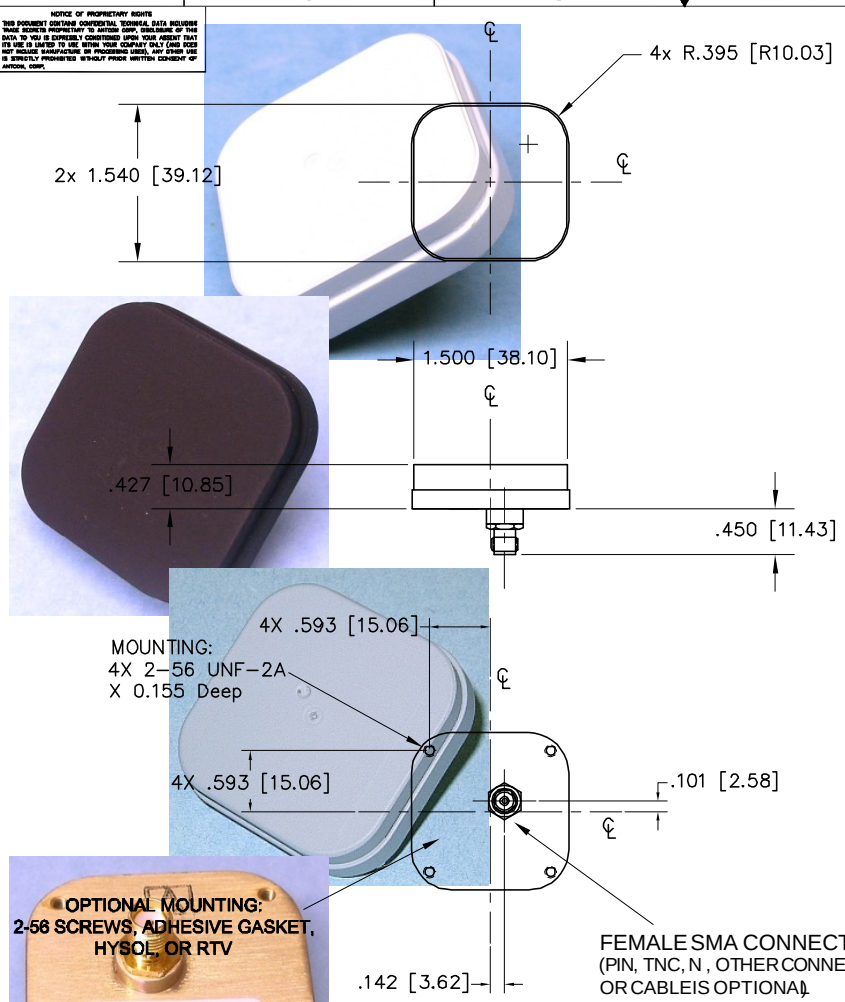

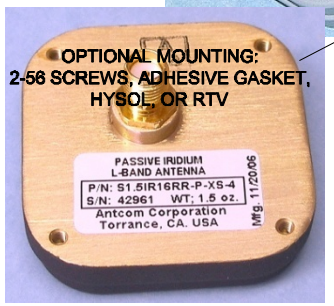

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(2484 - 2499) MHz	
RADIATION PATTERN:	HEMISPHERICA L	
POLARIZATION:	RHCP OR LHCP (See P/N Below)	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	3.5 in G.P.
@ 90° (Zenith) :	+4.6	+5.7
@ 10° Elevation (Ave):	-1.1	-2.4
@ 20° Elevation (Ave):	+2.2	-0.1
@ 30° Elevation (Ave):	+2.2	+1.6
@ 45° Elevation (Ave):	+3.4	+3.0
@ 70° Elevation (Ave):	+4.4	+5.0
BEAM WIDTH (3dB):	129 °	98 °
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

LNA OPTION :

LNA GAIN :	N/A	(35 +/- 1) dB
LNA NOISE FIGURE :	N/A	2.8 dB
LNA VOLTAGE :	N/A	(+2.5 to +30) Volts DC FROM Rx RF CON .
LNA DRAWING CURRENT :	N/A	< 38 mA
FILTER (REJ. @1616 MHz):	57 dB	

MECHANICAL:

SIZE :	LENGTH=1.54 in.[39.12 mm], WIDTH=1.54 in. [39.12 mm] HEIGHT= 0.427 in. [10.85 mm]
WEIGHT :	1.1 oz. (31.2 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR :	FEMALE SMA CONNECTOR (TNC, N , OTHER CONNECTOR, OR CABLE IS OPTIONAL)

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

SIZE :	FREQ. BAND :	POLARIZATION:	LNA :	FILTER :
1: 2" SQ .	1625: Tx/Rx	LL: LHCP	A1: WITH +23 dB LNA	
1.5: 1.5" SQ.	25: 2493 MHz		A2: WITH +43 dB LNA	
2: 2.6" DIA .	16: 1616 MHz		P: WITHOUT LNA	
3: 3.5" DIA.		RR: RHC P		
4: MINI ARINC				

P/N: 1.5G25XX-X-XS-X

CABLE'S LENGTH :	CONNECTOR :	COLOR :
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUN T	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N, NB: N, N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY REQD		DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
				–			
		ADHESIVE GASKET	12345G-3M-1.2G	–	–	–	1

PARTS LIST

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ± 1/64 DECIMALS .XX± .015 .XXX± .005 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .030 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ℄ .0005
MACHINED SURFACES 125
DO NOT SCALE DRAWING

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH Aug-27-03
CAD FILE NO

ANTCOM CORP. TORRANCE CALIFORNIA

1.5” SQ.
S-Band CP Antenna

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	1.5G25XX-X-XS-X	–

SCALE 1/1 SHEET 1 OF 1