



FAA Approved Facility

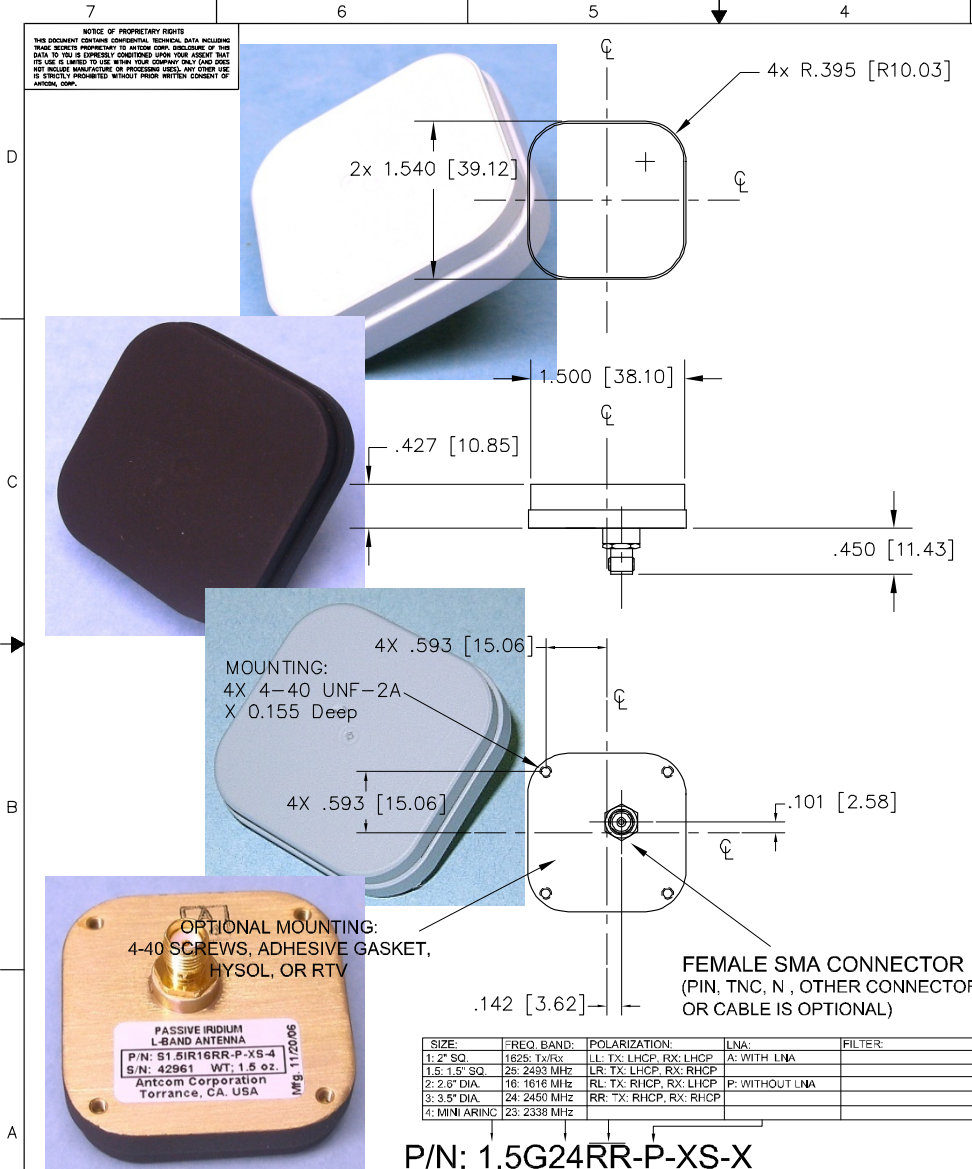
(2.4-2.5) GHz Antennas, P/N: 1.5G24RR-P-XS-4

1.5" Square, Back Mount Configurations with Cable



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

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



2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION  
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
 NOTES: UNLESS OTHERWISE SPECIFIED:

NOTICE OF PROPRIETARY RIGHTS  
 THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA, INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR AGREEMENT THAT IT IS TO BE USED ONLY WITHIN YOUR COMPANY AND NOT TO BE REPRODUCED, MANUFACTURED OR PROCESSED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF ANTCOM CORP.

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	(2400 - 2500) MHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	2.6 in G.P.
@ 90° (Zenith):	+4.6	+5.6
@ 10° Elevation (Ave):	-1.1	-1.4
@ 20° Elevation (Ave):	+2.2	+0.5
@ 30° Elevation (Ave):	+2.2	+1.8
@ 45° Elevation (Ave):	+3.4	+3.1
@ 70° Elevation (Ave):	+4.4	+5.4
BEAM WIDTH (3dB):	110°	+100°
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

SEE PART NO. BELOW

**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  
 COLOR: GLOSS WHITE #17925 PER FED-STD-595B  
 LUSTERLESS GRAY #36320 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  
 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, DO-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: TX: LHCP, RX: LHCP	A: WITH LNA	
1.5: 1.5" SQ.	25: 2493 MHz	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	
2: 2.6" DIA.	18: 1616 MHz	RL: TX: RHCP, RX: LHCP		
3: 3.5" DIA.	24: 2450 MHz	RR: TX: RHCP, RX: RHCP		
4: MINI ARINC	23: 2338 MHz			

P/N: 1.5G24RR-P-XS-X

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN) N: N (Optional Bulkhead)	R: RIGHT ANGLE CON. T: TNC (Optional Bulkhead)	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
-	-	-	-	-	-	5
-	ADHESIVE GASKET	12345G-3M-1.2G	-	-	-	3
-2	-1	-	-	-	-	1

UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES  
 FRACTIONS ARE TO BE IN DECIMALS  
 ± 1/64  
 DECIMALS ARE TO BE ± .010  
 UNLESS OTHERWISE SPECIFIED  
 TOLERANCE SURF PER ANSI Y14.5  
 SURF: ALL SURF  
 BEVEL: EXTERNAL EDGES .005 TO .015  
 FILED: 45° TO 90°  
 SPOKE: MINOR FOR MIL-C-8879  
 USE OF A CORNER R.25 R.OOK  
 MACHINED SURFACES  
 DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE CALIFORNIA  
 1.5" SQ.  
 802.11b ANTENNA

DESIGNED BY: S. HUYNH  
 DATE: Sep-15-03  
 DRAWN BY: J3C  
 CHECKED BY: J3C  
 SCALE: 1/1  
 SHEET: 1 OF 1