Isolated Ground Wi-Fi Antenna

P/N: 1.2G24P-R-9UFL-4-0.4T-UGDC Rev D (9 in. Cable With U. FL Connector)

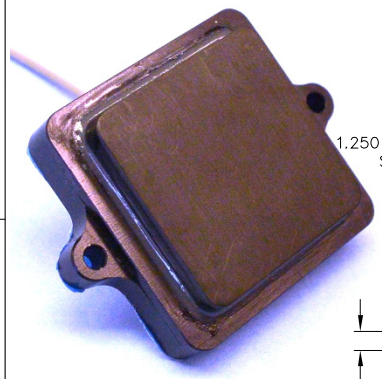
Back Mount Configuration with O-Ring, Black and fully Potted Inside for Water Ingress Protection

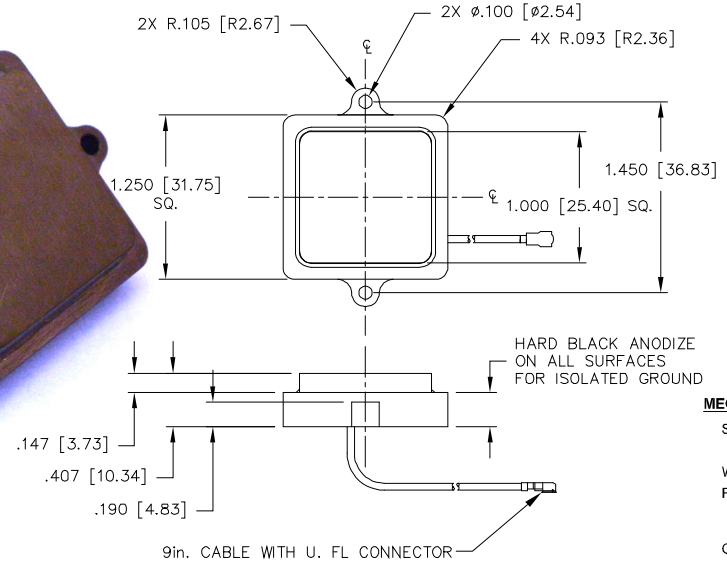
Antenna Mounts/Adapters: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf

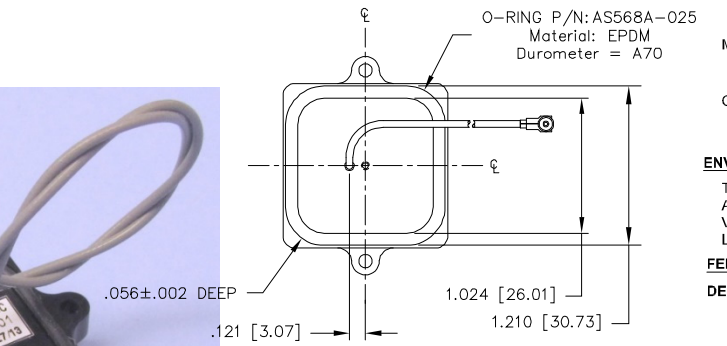
ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

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 ASSENT THAT IT'S USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PROGRAMMING USES) ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM, CORP.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ADDED NYLON SHOULDER WASHER	05/22/13	S.H.
	B	NO SHOULDER WASHER	09/21/15	S.H.
	C	O-RING	01/08/15	S.H.
	D	EPOXY POTTED	Jan-21-16	S.H.







SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(2.4 - 2.5) GHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	Free Space
@ 90° (Zenith):	+4.6	+5.1
@ 10° Elevation (Ave):	-1.1	-2.1
@ 20° Elevation (Ave):	+1.9	-0.3
@ 30° Elevation (Ave):	+2.6	+1.1
@ 45° Elevation (Ave):	+3.0	+2.6
@ 70° Elevation (Ave):	+4.0	+4.6
Beam Width (3dB):	139 °	99 °
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	1 Watt	

MECHANICAL:

SIZE: 1.25In. [31.75 mm] SQ.
HEIGHT= 0.407 in. [10.34 mm]

WEIGHT: 1.05 oz. (30 g)

FINISH: BASE: HARD BLACK ANODIZE PER MIL-A-8625F, TYPE III, CLASS 2
RADOME: SKYDROL RESISTANT POLYURETHANE ENAMEL PER FED-STD-595B

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
LUSTERLESS GRAY #36320 PER FED-STD-595B
CAMO GREEN #34094 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: 9in. CABLE WITH U. FL CONNECTOR
(OPTION: QMA, SMA, TNC, SMB, SSMA, SSMB, SSMC, SSMP, MCX, OR SMP)

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	A1: WITH +23 dB LNA	LL: TX: LHCP, RX: LHCP	
1.5: 1.5" SQ.	24: 2.450 MHz	A2: WITH +43 dB LNA	LR: TX: LHCP, RX: RHCP	
2: 2.6" DIA.	16: 1616 MHz	P: WITHOUT LNA	RL: TX: RHCP, RX: LHCP	
3: 3.5" DIA.			RR: TX: RHCP, RX: RHCP	
4: MINI ARINC				

QUANTITY REQD	-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
-2		O-RING	AS568A-025	-	-	-	1

PARTS LIST

P/N: 1.2G24P-R-9UFL-4-0.4T-UGDC

CABLE'S LENGTH:	MALE/ PLUG CONNECTOR:	COLOR:
X: NO CABLE	UFL - U. FL	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	S: SMA; RS: R-SMA; P: PINS; M: MCX;	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	MM: MMCX, SMB; SSMA, SSMB, SSMC,	-3: CAMO GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	SSMP, T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	L-RM: Right Angle Male Lemo	-5: DESERT TAN #33446 PER FED-STD-595B

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
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 .005 TO R .030 SCREW THREADS PER MIL-S-8879 CLASS 3A OR 2B COMMON & OFF-SIDE
MACHINED SURFACES 125
DO NOT SCALE DRAWING

ORIGINALLY DRAWN	S. HUYNH	May-08-12
ORIGINALLY DESIGNED	S. HUYNH	May-08-12
UPDATED	S. HUYNH	Jan-21-16
UPDATE DRAWN	P. TRAN	Jan-21-16
APPROVED	S. HUYNH	Jan-21-16

ANTCOM CORP. TORRANCE CALIFORNIA

1.2" SQ. isolated Ground Wifi Antenna

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	1.2G24P-R-9UFL-4-0.4T-UGDC	D

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas