



UHF/L/S-Band Antenna for Deep Sea Applications, *Depth Rate = 10 Km (1455 PSI)*

P/N: 201.0-0102V-40CPA2155-UU-R2500 (100 – 200 MHz) ; P/N: 201.0-0305V-40CPA2155-UU-R2500 (300 – 500 MHz)

P/N: 201.0-0820V-40CPA2155-UU-R2500 (800 – 2000 MHz) ; P/N: 201.0-0727V-40CPA2155-UU-R2500 (700 – 2700 MHz)

40" Cable with CPA2155 Connector, Other Frequencies, Connector and Cable Length are Available.

ISO 9001:2008/FAA Approved Facility

Antenna Mounts/Adapters: <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](mailto:antennas@antcom.com) . <http://www.antcom.com>

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REVISIONS		DATE	APPROVED

### SPECIFICATIONS

**ELECTRICAL:**

FREQUENCY (MHz):	(100-200) or (300-500) or (800-2000) MHz
PATTERN:	OMNIDIRECTIONAL
POLARIZATION:	VERTICAL
ANTENNA GAIN :	> 0 dB
VSWR:	2.5:1
OUTPUT IMPEDANCE:	50 Ω
POWER HANDLING:	>50 watts (Without LNA)
LNA OPTION:	GAIN: 20 dB, NF: 4.1 dB, OP1dB: +18dB, OIP3: +33dB DC: (5 to 24) Volt @ <70mA

**MECHANICAL:**

SIZE: BASE DIAMETER = 1.120 in. [28.45 mm],  
HEIGHT = < 21 in [533.4 mm]

WEIGHT: 1.266 lbs (574 g)

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

FINISH: TEFLON COATED

CONNECTOR: CPA2155 MALE CABLE  
(OPTION: SMA, TNC, N or BNC)

**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

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

FREQUENCY (GHz)	POLARIZATION:	CONNECTOR:	COLOR:
0102: (100-200) MHz	V: VERTICAL	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
0305: (300-500) MHz	L: LHCP	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
0820: (800-2000) MHz	R: RHCP	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		CPA2X: CPA2902	-8: TAN #33446 PER FED-STD-595B
XXYY: (X.XX-Y.YY) MHz		CPA2155: CPA2155	UL: Gray Color Teflon Coating

QUANTITY	DESCRIPTION	PART NO	MATERIAL	ITEM

**P/N: 201.0-XXYYV-40CPA2155-UU-R2500**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ANGLES
FRACTIONS: 1/16 1/32 3/32 1/8 3/16 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 12 12 1/4 12 1/2 14 14 1/4 14 1/2 16 16 1/4 16 1/2 18 18 1/4 18 1/2 20 20 1/4 20 1/2 24 24 1/4 24 1/2 30 30 1/4 30 1/2 36 36 1/4 36 1/2 48 48 1/4 48 1/2 60 60 1/4 60 1/2 72 72 1/4 72 1/2 96 96 1/4 96 1/2 120 120 1/4 120 1/2 150 150 1/4 150 1/2 180 180 1/4 180 1/2 240 240 1/4 240 1/2 300 300 1/4 300 1/2 360 360 1/4 360 1/2 480 480 1/4 480 1/2 600 600 1/4 600 1/2 720 720 1/4 720 1/2 960 960 1/4 960 1/2 1200 1200 1/4 1200 1/2 1500 1500 1/4 1500 1/2 1800 1800 1/4 1800 1/2 2400 2400 1/4 2400 1/2 3000 3000 1/4 3000 1/2 3600 3600 1/4 3600 1/2 4800 4800 1/4 4800 1/2 6000 6000 1/4 6000 1/2 7200 7200 1/4 7200 1/2 9600 9600 1/4 9600 1/2 12000 12000 1/4 12000 1/2 15000 15000 1/4 15000 1/2 18000 18000 1/4 18000 1/2 24000 24000 1/4 24000 1/2 30000 30000 1/4 30000 1/2 36000 36000 1/4 36000 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