UHF Fiber Glass Omnidirectional High Gain Collinear Antenna

AC9-850	800-990 MHz.	9 dBi. Gain
AC9-630	000-990 MIDZ.	9 upi. Gaiii

DESIGN FEATURES: AC9-850 UHF Fiberglass Omni-directional Collinear Antenna is rugged all weather model uses high class brass and aluminum alloy and does not require any field tuning or adjustments. All junctions are fully welded to prevent RF inter-modulation and antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The heavy duty fiberglass enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The compact size of fiber glass collinear antenna allows easy handling and shipping. The antenna is supplied with olive green military color. Other customized color can also be supplied on request.

CONSTRUCTIONS: The AC9-850 is a center fed design which eliminates the distortion of the radiation pattern and ensures a true omni-directional horizontal pattern. The special stub matching is used for smooth VSWR and constant gain over the specified frequency band. The UHF collinear antenna consist of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in fiber glass tube. The antenna termination is enclosed at bottom of the antenna for complete weather protection. The stainless steel mounting hardware is supplied with the antenna.



ELECTRICAL SPECIFICATIONS:

Gain 9 dBi. Bandwidth 90 MHz. Polarization Vertical Input Impedance 50 Ohms. Radiation Pattern Omni Directional Vertical Beam-width –Half Power Points 12 Degrees VSWR – Better Than 1.5:1 RF Power Handling Capacity 200 Watts. Input Termination N-Female MECHANICAL SPECIFICATIONS: Mounting Hardware Stainless Steel Gross Weight 5 Kgs. Wind Rating 200 Km/Hr. Overall Length 2.6 Meters Shipping Length 2.7 Meters Support Pipe Outer Diameter 51 mm Support Pipe Materials 6063T6 Aluminum Alloy Maximum Mount Pipe Diameter 51 mm (2 Inches) Enclosure Materials Fiberglass Enclosure Outer Diameter 45 mm Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Frequency Range	800 - 990 MHz.	
Polarization Vertical Input Impedance 50 Ohms. Radiation Pattern Omni Directional Vertical Beam-width –Half Power Points 12 Degrees VSWR – Better Than 1.5:1 RF Power Handling Capacity 200 Watts. Input Termination N-Female MECHANICAL SPECIFICATIONS: Mounting Hardware Stainless Steel Gross Weight 5 Kgs. Wind Rating 200 Km/Hr. Overall Length 2.6 Meters Shipping Length 2.7 Meters Support Pipe Outer Diameter 51 mm Support Pipe Materials 6063T6 Aluminum Alloy Maximum Mount Pipe Diameter 51 mm (2 Inches) Enclosure Materials Fiberglass Enclosure Outer Diameter 45 mm Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature	Gain	9 dBi.	
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Radiation Pattern Vertical Beam-width —Half Power Points 12 Degrees VSWR — Better Than RF Power Handling Capacity Input Termination MECHANICAL SPECIFICATIONS: Mounting Hardware Gross Weight Stainless Steel Gross Weight 5 Kgs. Wind Rating 200 Km/Hr. Overall Length 2.6 Meters Shipping Length 2.7 Meters Support Pipe Outer Diameter Support Pipe Materials 6063T6 Aluminum Alloy Maximum Mount Pipe Diameter 51 mm Support Pipe Diameter 51 mm (2 Inches) Enclosure Materials Fiberglass Enclosure Outer Diameter 45 mm Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature	Polarization	Vertical	
Vertical Beam-width –Half Power Points VSWR – Better Than RF Power Handling Capacity Input Termination MECHANICAL SPECIFICATIONS: Mounting Hardware Gross Weight Stainless Steel Gross Weight 5 Kgs. Wind Rating 200 Km/Hr. Overall Length 2.6 Meters Shipping Length 2.7 Meters Support Pipe Outer Diameter Support Pipe Materials 6063T6 Aluminum Alloy Maximum Mount Pipe Diameter 51 mm Support Pipe Diameter 51 mm (2 Inches) Enclosure Materials Fiberglass Enclosure Outer Diameter 45 mm Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature	Input Impedance	50 Ohms.	
VSWR – Better Than RF Power Handling Capacity Input Termination MECHANICAL SPECIFICATIONS: Mounting Hardware Gross Weight Stainless Steel Stainless Steel Gross Weight Stainless Steel Stainless Steel Stainless Steel Gross Weight Storall Length 2.6 Meters Stainless Steel 606 Meters Strip Meters Strip Meters Strip Meters Strip Meters Strip Materials Gross Weight Strip Meters Stri	Radiation Pattern	Omni Directional	
RF Power Handling Capacity Input Termination MECHANICAL SPECIFICATIONS: Mounting Hardware Gross Weight Stainless Steel Gross Weight 5 Kgs. Wind Rating 200 Km/Hr. Overall Length 2.6 Meters Shipping Length 2.7 Meters Support Pipe Outer Diameter Support Pipe Materials 6063T6 Aluminum Alloy Maximum Mount Pipe Diameter 51 mm (2 Inches) Enclosure Materials Fiberglass Enclosure Outer Diameter 45 mm Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Vertical Beam-width –Half Power Points	12 Degrees	
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MECHANICAL SPECIFICATIONS:Mounting HardwareStainless SteelGross Weight5 Kgs.Wind Rating200 Km/Hr.Overall Length2.6 MetersShipping Length2.7 MetersSupport Pipe Outer Diameter51 mmSupport Pipe Materials6063T6 Aluminum AlloyMaximum Mount Pipe Diameter51 mm (2 Inches)Enclosure MaterialsFiberglassEnclosure Outer Diameter45 mmEnclosure Length2350 mmENVIRONMENTAL SPECIFICATIONS:Operating Temperature(-) 30 to +70 Degrees CelsiusStorage Temperature(-) 40 to +80 Degrees Celsius	RF Power Handling Capacity	200 Watts.	
Mounting HardwareStainless SteelGross Weight5 Kgs.Wind Rating200 Km/Hr.Overall Length2.6 MetersShipping Length2.7 MetersSupport Pipe Outer Diameter51 mmSupport Pipe Materials6063T6 Aluminum AlloyMaximum Mount Pipe Diameter51 mm (2 Inches)Enclosure MaterialsFiberglassEnclosure Outer Diameter45 mmEnclosure Length2350 mmENVIRONMENTAL SPECIFICATIONS:Operating Temperature(-) 30 to +70 Degrees CelsiusStorage Temperature(-) 40 to +80 Degrees Celsius	Input Termination	N-Female	
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Wind Rating 200 Km/Hr. Overall Length 2.6 Meters Shipping Length 2.7 Meters Support Pipe Outer Diameter 51 mm Support Pipe Materials 6063T6 Aluminum Alloy Maximum Mount Pipe Diameter 51 mm (2 Inches) Enclosure Materials Fiberglass Enclosure Outer Diameter 45 mm Enclosure Length Enclosure Length ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Mounting Hardware	Stainless Steel	
Overall Length 2.6 Meters Shipping Length 2.7 Meters Support Pipe Outer Diameter Support Pipe Materials 6063T6 Aluminum Alloy Maximum Mount Pipe Diameter 51 mm (2 Inches) Enclosure Materials Fiberglass Enclosure Outer Diameter 45 mm Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Gross Weight	5 Kgs.	
Shipping Length Support Pipe Outer Diameter Support Pipe Materials Maximum Mount Pipe Diameter Enclosure Materials Enclosure Outer Diameter Enclosure Length Environmental Specifications: Operating Temperature Storage Temperature 2.7 Meters 51 mm 2.6063T6 Aluminum Alloy 51 mm (2 Inches) Fiberglass 45 mm 2350 mm (-) 30 to +70 Degrees Celsius	Wind Rating	200 Km/Hr.	
Support Pipe Outer Diameter Support Pipe Materials 6063T6 Aluminum Alloy Maximum Mount Pipe Diameter 51 mm (2 Inches) Enclosure Materials Fiberglass Enclosure Outer Diameter 45 mm Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Overall Length	2.6 Meters	
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Maximum Mount Pipe Diameter51 mm (2 Inches)Enclosure MaterialsFiberglassEnclosure Outer Diameter45 mmEnclosure Length2350 mmENVIRONMENTAL SPECIFICATIONS:(-) 30 to +70 Degrees CelsiusOperating Temperature(-) 40 to +80 Degrees Celsius	Support Pipe Outer Diameter	51 mm	
Enclosure Materials Enclosure Outer Diameter Enclosure Length ENVIRONMENTAL SPECIFICATIONS: Operating Temperature Storage Temperature Fiberglass 45 mm 2350 mm (-) 30 to +70 Degrees Celsius (-) 40 to +80 Degrees Celsius	Support Pipe Materials	6063T6 Aluminum Alloy	
Enclosure Outer Diameter 45 mm Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Maximum Mount Pipe Diameter	51 mm (2 Inches)	
Enclosure Length 2350 mm ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Enclosure Materials	Fiberglass	
ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Enclosure Outer Diameter	45 mm	
Operating Temperature (-) 30 to +70 Degrees Celsius Storage Temperature (-) 40 to +80 Degrees Celsius	Enclosure Length	2350 mm	
Storage Temperature (-) 40 to +80 Degrees Celsius	ENVIRONMENTAL SPECIFICATIONS:		
	Operating Temperature	(-) 30 to +70 Degrees Celsius	
Humidity 0 to 95% RH	Storage Temperature	(-) 40 to +80 Degrees Celsius	
	Humidity	0 to 95% RH	

Please contact us for further information like Azimuth & Elevation radiation patterns & frequency Vs VSWR of the antenna.

Note: All information contained in the datasheet is subject to change without any prior notice.