

SMART ELECTRONICS COMMUNICATION

Delhi, INDIA

E-mail: info@secantenna.com Website: www.secantenna.com

Model No.: SCL450G9	Frequency: 300-520 MHz	Gain: 9 dBi
FIBERGLASS COLLINEAR ANTENNA		

DESIGN FEATURES: UHF Band Fiberglass Omni-directional Collinear Antenna is rugged all weather models uses high class brass and aluminium alloy and does not require any field tuning or adjustments. All junctions are fully sealed to prevent RF inter-modulation and antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The compact size of fiberglass collinear antenna allows easy handling and shipping.

CONSTRUCTIONS: The SCL450G9 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 fiberglass 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:	
Frequency Range	300-520 MHz
Gain	9 dBi
Bandwidth	30 MHz
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	18 Degrees
VSWR	1.5 : 1
RF Power Handling Capacity	500 Watts
Input Termination	N-Female
MECHANICAL SPECIFICATIONS:	
Mounting Hardware	Stainless Steel
Antenna Weight	4 Kg
Overall Length	3.0 Meters
Shipping Length	3.1 Meters
Wind Rating	200 Km/Hr.
Support Pipe Outer Diameter	31 mm (1.25 inches)
Support Pipe Materials	Aluminium
Maximum Mounting Pipe Diameter	50 mm (2 inches)
Enclosure Materials	Fiberglass
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

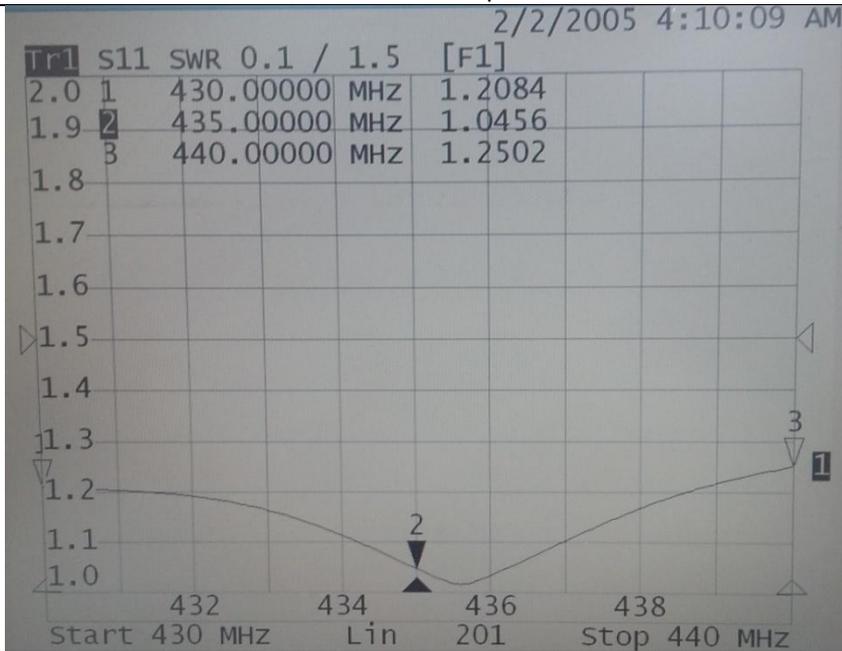
Note: All information contained in the datasheet is subject to change without any prior notice.

SMART ELECTRONICS COMMUNICATION

Delhi, INDIA

E-mail: info@secantenna.com Website: www.secantenna.com

VSWR Test Report



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