

SMART ELECTRONICS COMMUNICATION

Delhi, INDIA

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

Model No: SQFH400G5

Frequency: 380-450 MHz

Gain: 5 dBi (max)

CIRCULAR POLARIZED QUADRIFILAR HELIX ANTENNA

DESIGN FEATURES: The antenna provides circular polarization and complete hemispherical reception, which is precisely what is needed to receive the polar orbiting weather satellites, while maintaining the wider beam-width. Antenna use Circular Polarization Technology - which delivers better penetration through obstruction and interference. The SQFH400G4 Quadrifilar Helix antenna is highly suitable to provide the uninterrupted communications in the tunnels. This commercial grade antenna provides superior performance as compare to significantly larger and more expensive products. Our SQFH series Quadrifilar Helix antennas are smaller than conventional yagi antenna. The SQFH400G5 Quadrifilar Helix antenna is supplied with a specially designed mounting arrangement to hold the antenna at back end by using two stainless steel mounting brackets to withstand the higher wind rating.



CONSTRUCTIONS: The SQFH400, like all our SQFH series Quadrifilar Helix antennas, utilizes right/left hand circular polarization to minimize the effects of multipath interference. The SQFH400 Quadrifilar Helix antenna is heavy duty and rugged Quadrifilar Helix antennas, supplied with radome to protect the antenna from environment. Cylindrical enclosure is used for low wind loading and for minimal effect of ice formation on the Quadrifilar Helix antenna operation as well as providing an aesthetically pleasing appearance.

ELECTRICAL SPECIFICATIONS:

Frequency Range	380-450 MHz
Gain	2-5 dBic
Bandwidth	6-8 MHz
Polarization	Circular RHCP/LHCP (Fixed at the time of manufacturing)
Input Impedance	50 Ohms
Radiation Pattern	Hemispherical
Vertical Beam-width	170° Degrees
VSWR	≤ 1.5 : 1
RF Power Handling Capacity	100 Watts
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Gross Weight (approx.)	2 Kg (4.5 lbs)
Overall Length (approx.)	17" inches
Shipping Length (approx.)	18" inches
Wind Rating	200 Km/Hr.
Radiating Materials	Copper
Enclosure diameter	17 cm
Reflector Materials	Aluminium Alloy
Reflector Size	25 x 25 cm
Maximum Mounting Pipe Diameter	38-50 mm (1.5-2" inches)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30° to +70° C (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.

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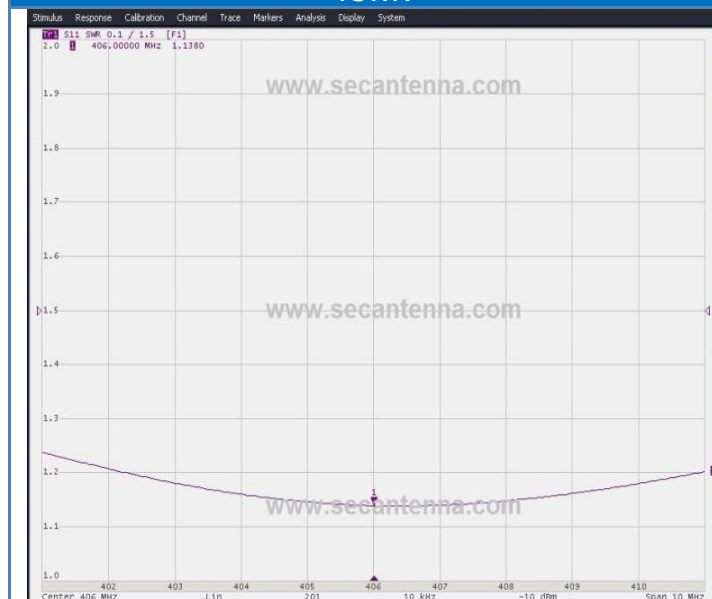
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Antenna Report:

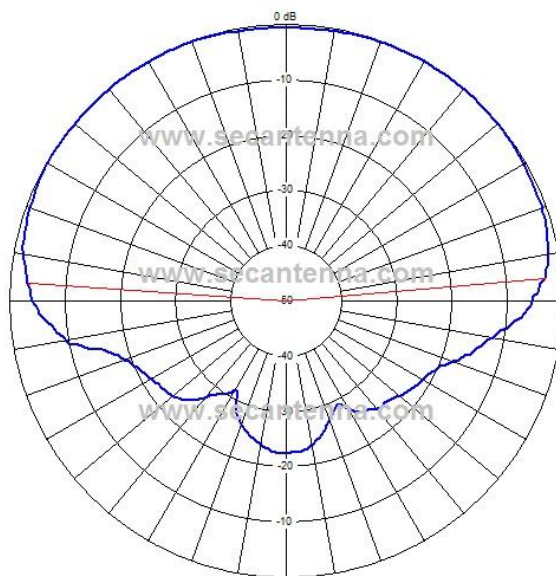
Antenna Image



VSWR



Radiation Pattern



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Mechanical Drawing

UHF Band QFH Antenna

