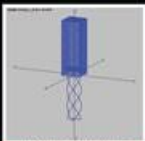


**APPLICATIONS OF
DEPLOYABLE HELICAL AND QUADRIFILAR
HELICAL ANTENNA MODULES FOR
SMALL SATELLITES**

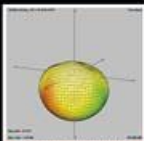


400 MHz QUADRIFILAR HELICAL ANTENNA

Fits into a 1U X 1U face of a Cube Sat 400 MHz QHA's on 10 cm x 10 cm can provide 120-degree -3 dB beamwidth



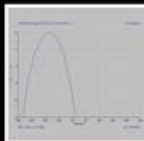
**400 MHz QHA MOUNTED
ON 3U CUBE SAT**



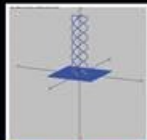
**3D VIEW OF RIGHT HAND
CIRCULAR PATTERN**



2D POLAR ELEVATION VIEW



2D RECTANGULAR VIEW



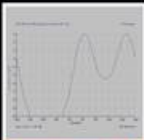
400 MHz ISOFLUX ANTENNA

Axial Height : 30 inches,
75 centimeters
Diameter : 4 inches,
10 centimeters Suitable for
mounting on a 2U X 2U face.



ISOFLUX POLAR PLOT

3.25 dBi Gain at +/- 90 Deg
or 180 Deg Beamwidth



ISOFLUX RECTANGULAR PLOT

3.25 dBi Gain at +/- 90 Deg
or 180 Deg Beamwidth



**EU AND US ISM FREQUENCY
BAND 865-925 MHZ**

12 dBi Nadir RHCP Gain



**EU AND US ISM FREQUENCY
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12 dBi Nadir RHCP Gain