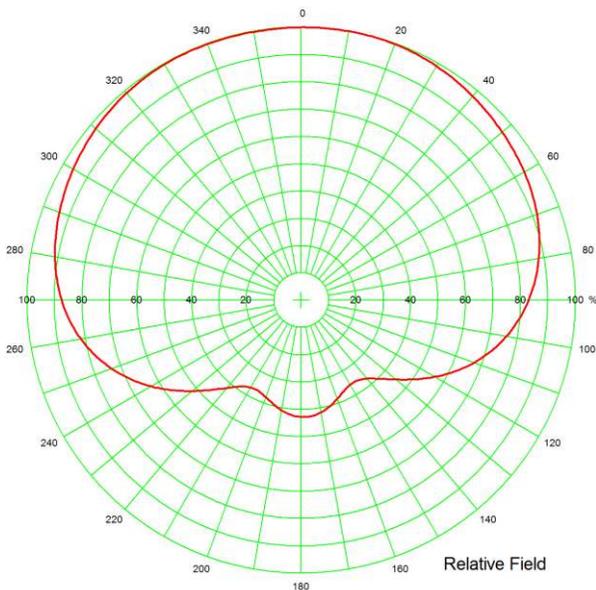
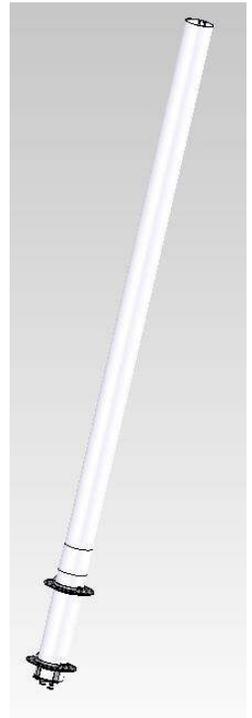




**UHF CARDIOID ANTENNA  
VERTICALLY POLARISED  
470MHz - 800MHz**

## VERTICALLY POLARISED BROADBAND UHF CARDIOID ANTENNA

The 16 lambda cardioid antenna is designed to produce a wide cardioid Horizontal Radiation Pattern (HRP) from an array of co-linear full wave vertical dipoles. The dipoles are mounted to the narrow edge of aluminium 150mm x 50mm channels with a sheet metal cover containing the LCF 1/2" distribution cables. A single model can cover the UHF band 470MHz to 800MHz configured as interleaved half antennas or 470MHz – 735MHz configured as true halves. The 16 lambda cardioid is fed via dual co-phased inputs and designed to be imbedded into the structure housed within a 425mm diameter GRP radome. The cardioid antenna is suitable for multiple DVB-T2 or Analogue channels. With a durable and rugged construction the antenna is designed for many years of trouble free operation.



**Typical Horizontal Radiation Pattern**

### Typical Specification

<b>Polarisation</b>	Vertical
<b>Frequency Range</b>	470 - 800MHz
<b>Interleaved Configuration</b>	Full Antenna & Half
<b>Frequency Range Half Antenna Configuration</b>	470 - 800MHz Full 470 - 735MHz Half
<b>Impedance</b>	50 ohm
<b>VSWR</b>	<1.22:1
<b>Max Gain</b>	13.91dBd
<b>Beam Tilt</b>	1.8°
<b>Low Freq Max Power</b>	5.38kW (Half Antenna)
<b>Input Connector</b>	2 x 1 5/8"
<b>Length/Diameter</b>	10260mm / 425mm
<b>Weight</b>	580kg
<b>Effective Projected Area</b>	2.8 sq. m
<b>Lightning Protection</b>	DC Grounded
<b>*Design Windspeed</b>	75 m/s
<b>Max windspeed without Damper</b>	85 m/s
<b>Max windspeed with Damper</b>	75 m/s

\*If used in an environment where the wind speeds regularly exceed the stated design speed please contact the office for verification.