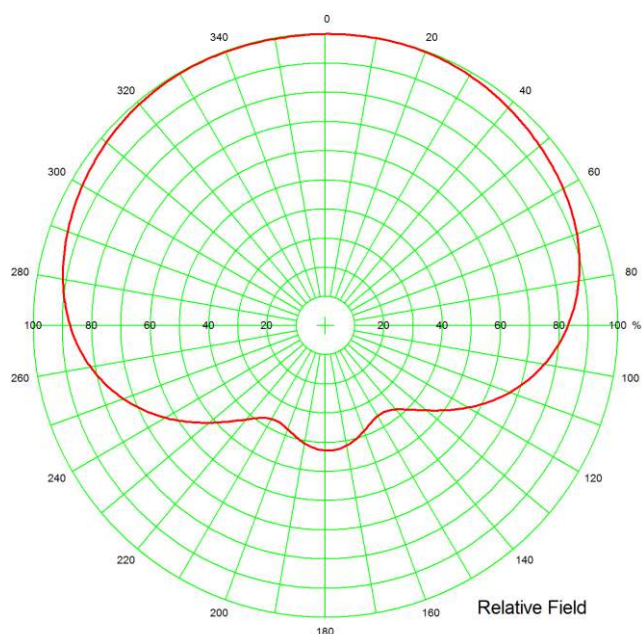


VERTICALLY POLARISED BROADBAND UHF CARDIOID ANTENNA

The 8 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 ½" distribution cables. A single model can cover the UHF band 470MHz to 800MHz configured as interleaved halves or 470MHz – 735MHz configured as true halves. The 8 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

Polarisation	Vertical
Frequency Range Interleaved Configuration	470 - 800MHz
Frequency Range Half Antenna Configuration	Full Antenna & Half 470 - 800MHz Full 470 - 735MHz Half
Impedance	50 ohm
VSWR	<1.22:1
Max Gain	11.29dBd
Beam Tilt	3.5°
Low Freq Max Power	4.68kW (Half Antenna)
Input Connector	2 x 1 5/8"
Length/Diameter	6450mm / 425mm
Weight	403kg
Effective Projected Area	1.9 sq. m
Lightning Protection	DC Grounded
*Design Wind speed	75 m/s
Max wind speed without Damper	160 m/s
Max wind speed with Damper	135 m/s

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