



PRODUCT OVERVIEW:

HELI-A0109 is a high power helical spiral, right-hand circularly polarised antenna designed operating in the 1160 - 1610 MHz band. The antenna provides broad beam coverage without nulls or reduction in performance.

The antenna features a low VSWR and high gain over the operating band with a light weight, yet robust radome to protect the radiator.

This antenna is a marine hardened version of the HELI-A0108.

SPECIFICATIONS:

Electrical:	
Frequency range:	1160 – 1610 MHz
Gain:	> 13 dBi
Beamwidth:	40° (± 20°)
Polarisation:	RHCP
Nominal impedance:	50 Ω
VSWR:	< 2.0:1
Power handling	150W CW
Connector:	N-type female
Mechanical:	
Overall length:	950 mm (Antenna)
Diameter:	120 mm (Radome) 280 mm (Base)
Weight:	2.6 kg (Antenna) 1.5 kg (Bracket)
Material:	Aluminium, Stainless steel, Acetal, Fibreglass
Colour	Per request
Environmental: designed to meet the following specifications	
MIL-STD-810G Change1	Method / specification
Temperature range	501.6 procedure I and II, 502.6 procedure I and II Storage: -40 °C to +85°C Operation: -40 °C to +71 °C
Rain	506.6 procedure I 30 mm/h rainfall with a 35-knot wind
Humidity	507.6, procedure II +30 °C to +60 °C, RH = 90%
Salt fog	509.6, 2 Dry and 2 Wet cycles with 5% salt solution
Solar radiation	505.6 procedure II
Sand and Dust	510.6 procedure I and II
Vibration	528.1 1mm over frequency 4 – 14 hz 0.8g over frequency 14 – 100 hz
Shock	516.7 procedure I Vertical: 50g and 6ms half-sine pulse Horizontal: 30g and 11ms half-sine pulse
Other	
Ingress protection	IP 65
Wind survival	140 km/h

PRODUCT FEATURES:

- High gain
- High power
- Low VSWR

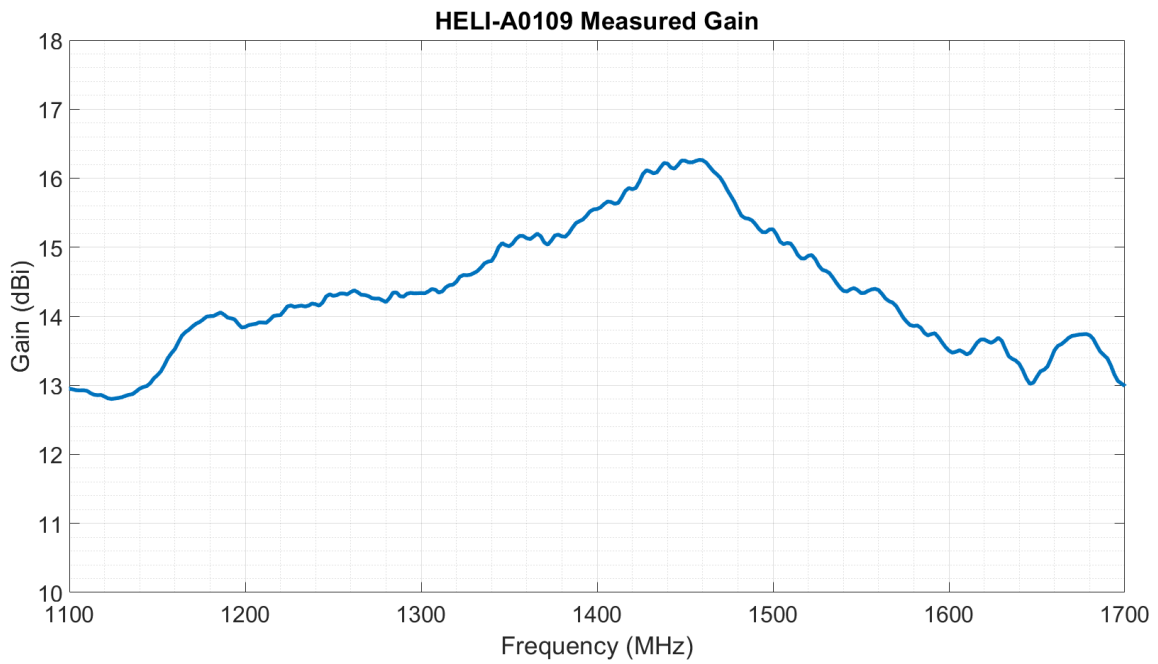
High Power Helical Antenna

1160 – 1610 MHz

Product Code: HELI-A0109

VERSION: 1.2

Measured Gain:



Measured VSWR:

