

CIRCULAR POLARISED S-BAND HELICAL ANTENNAS

Antenna type TH2125R12 & TH2125R7



ELECTRICAL SPECIFICATIONS

- Frequency Range 2.1 to 2.5 GHz
- Polarisation RHC
- Gain H2125R12 11.5 dBic at 2.1 GHz
12.5 dBic at 2.3 GHz
13.5 dBic at 2.5 GHz
- Gain H2125R7 7.0 dBic at 2.1 GHz
7.5 dBic at 2.3 GHz
8.0 dBic at 2.5 GHz
- Midband HPBW 35 deg. H2125R12
70 deg. H2125R7
- Power Rating 50 Watts CW
- Impedance 50 Ohms
- VSWR better than 1,5:1
- Front to Back Ratio >20 dB
- Side Lobes <14 dB

The helical antennas model TH2125R12 and TH2125R7 are directional antennas, specially designed for applications in the frequency range from 2.1 to 2.5 GHz. This rugged, superior constructed circular polarised antennas are enclosed in a hermetically sealed radome. It is designed to withstand ice, snow, high winds and most severe saltwater, oil and most common chemical fumes. The antennas may be used individually or in multiple arrays for increased gain and directivity or specially coverage.

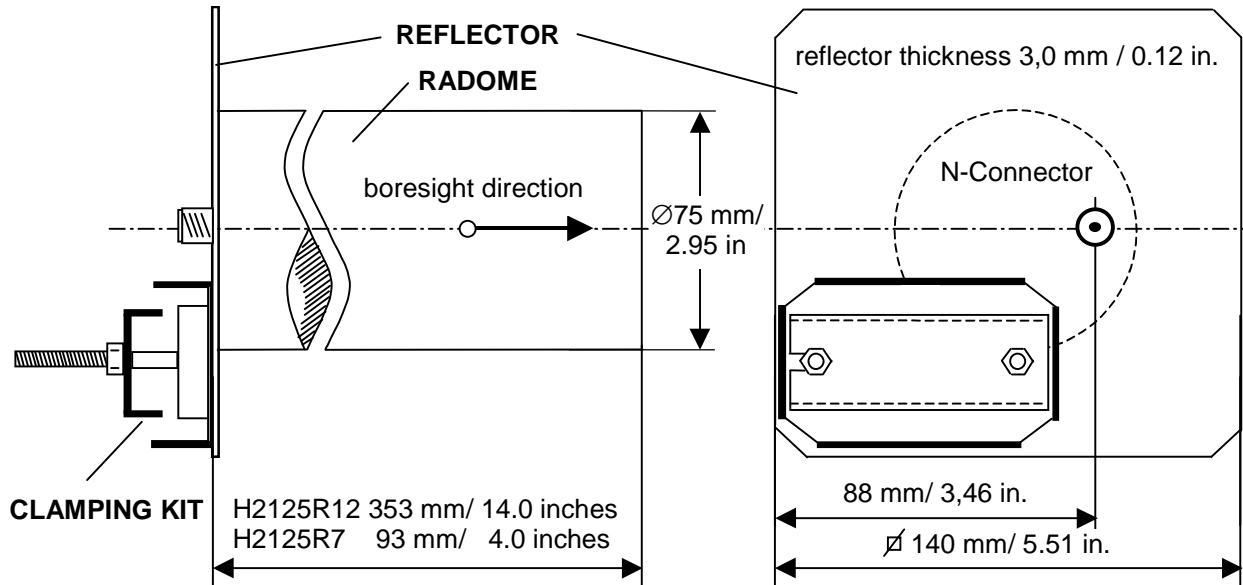
MECHANICAL SPECIFICATIONS

- Connector Type N-female
- Antenna Length H2125R12 353 mm (14.0 inch)
H2125R7 93 mm (4.0 inch)
- Reflector Size 140 x 140 mm (5.5 x 5.5 inch)
- Colours radome - gray
reflector- black
- Mounting by Mount Kit for 35 to 60 mm (1.4 to 2.4 in) mast
- Weight H2125R12 ≤450 gramms (1,0 lb)
H2125R7 ≤360 gramms (0,8 lb)
Clamping Kit ≤300 gramms (0,7 lb)

ENVIRONMENTAL SPECIFICATIONS

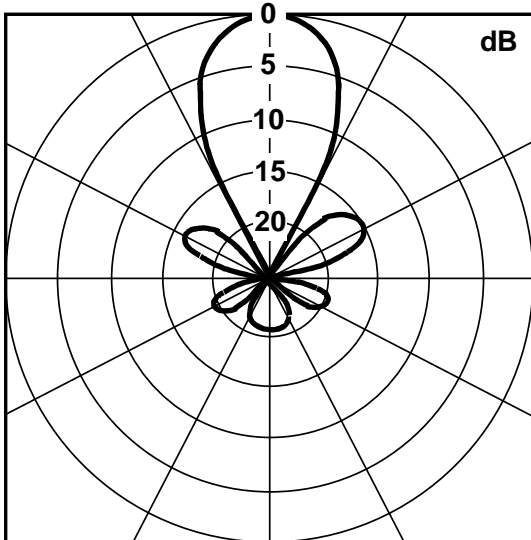
- Temperature Range -40°C to +85°C (-40°F to +185° F)
- Wind Velocity max. 180 km/h (110 mph)

OUTLINE DIMENSIONS

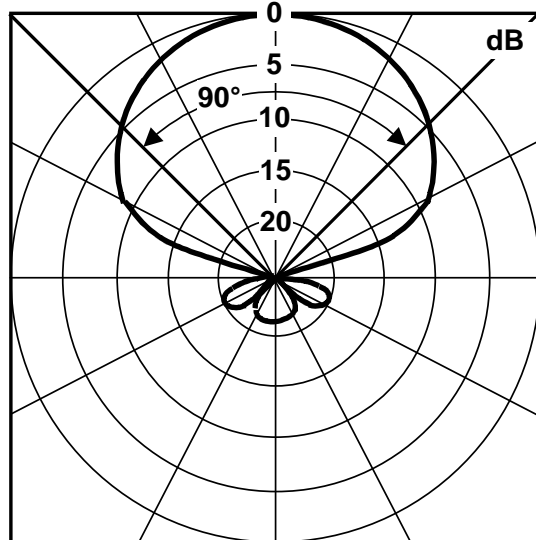


TYPICAL RADIATION PATTERNS for AZIMUT and ELEVATION

TH2125R12 at 2300 MHz



TH2125R7 at 2300 MHz



OPTIONS

Follow options are available on request:

- LHC polarized units
- L -band and C-band models