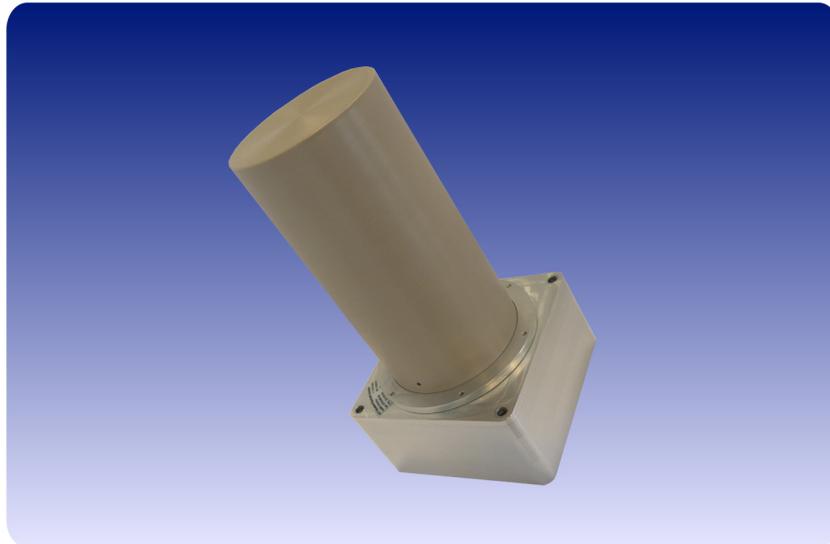


C-Band Satellite Antenna QFH-5180R



Highlights

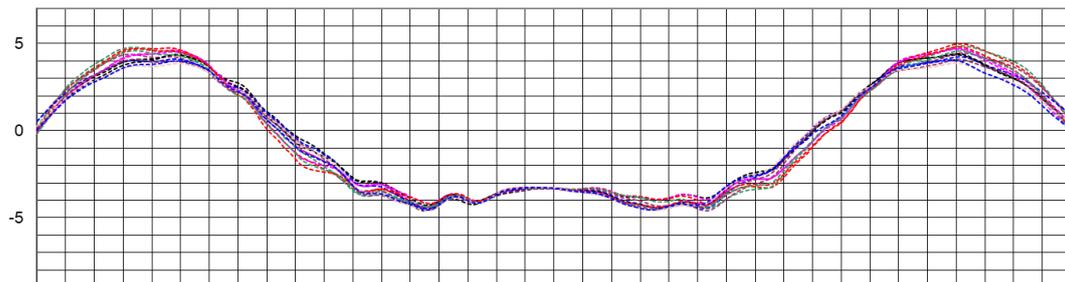
- ➔ Circularly polarized quadrifilar Antenna
- ➔ Isoflux Characteristics
- ➔ C-Band 5,150 to 5,216 MHz
- ➔ up to 20 watts cw
- ➔ Designed for LEO-satellite missions
- ➔ Compact size and low weight
- ➔ Made in Germany

The **C-Band Antenna QFH-5180R** has been designed for use on board of small satellites. The iso-flux pattern has been optimized particularly for low earth orbit (LEO) missions.

The antenna operates in the C-Band (5,150 MHz to 5,216 MHz), which is allocated on a primary basis to Space-to-Earth feeder-links of non-geostationary satellite systems for mobile-satellite services.

The antenna design is compact, solid and very rugged.

Typical Pattern:



Specifications:

Electrical:

Frequency Range	5,150 MHz to 5,216 MHz
Gain	see diagram
Coverage	Isoflux
Polarization	Right circular (Left circular optional)
Power	43 dBm CW, max.
Impedance	50 ohms
VSWR	better than 1,5 : 1
Connector	SMA female

Environmental:

Operating Temperature	-60°C ... +120°C (extended range upon request)
Vibration	20 ... 2,000 Hz; 25g rms random, 3-axis
Shock	100g (100 Hz), 3,500g (>1000 Hz)

Mechanical:

Dimensions	Length approx. 168 mm with pedestal (128 mm without pedestal), Reflector / Pedestal 85 x 85 mm, Radome d = 64 mm;
Mounting	4 holes each 4.5 mm
Weight	ca. 450 gr.
Radome	PEEK (beige) VESPEL (gold brown) optional
Reflector	AW6082 with finish Alodine1200 or SURtec650