

Helical satellite antenna

Antenna type TH4449R7

The antenna TH4449R7 is specifically designed for applications on board of flying objects, where its possible to direct the antenna to the ground station. It may also be used as a primary beamer (FEED) for high gain antennas. The construction is rugged and compact.

Technical Data

Electrical Data

Frequency Range	4,4 ... 4,9 GHz
Polarisation	circular – optionally RHC or LHC
Gain	7,5 dBic at 4,40 GHz 8,0 dBic at 4,65 GHz 8,5 dBic at 4,90 GHz
Beamwidth (HPBW)	78° at 4,40 GHz 70° at 4,65 GHz 65° at 4,90 GHz
Forward/Back Ratio	>20 dB
Axial Ratio	<2 dB
RF Power	max. 10 Wcw
Impedance	50 Ohm
VSWR	better than 1,4 : 1 (typ. 1,2 : 1)

Mechanical Data

Connector Type	SMA-f
Weight	max. 60 Gramms
Temperature Range	-100 to +100°C
Vibration	20 grms; 20 to 2000 Hz
Shock	50 g; 15 ms
Antenna Reflector	Aluminium, black eloxal
Radom	PEEK, beige

Dimensions

