

HIRSCHMANN MOBILITY

CELLULAR (2G/3G/4G) Screw Antenna

CEL 7026 LP S
Pt no.
920-635-001



Subject to alterations

- Passive transmitting and reception antenna
- Low Profile (body height app. 31 mm) antenna
- Coverage of all European and American mobile cellular communication net
- Mounting on several surfaces (e.g. plastics, metal ...)

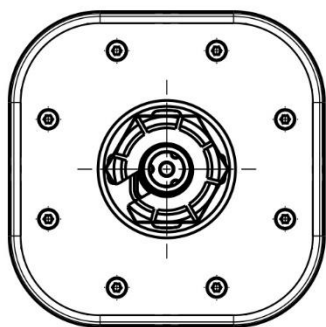
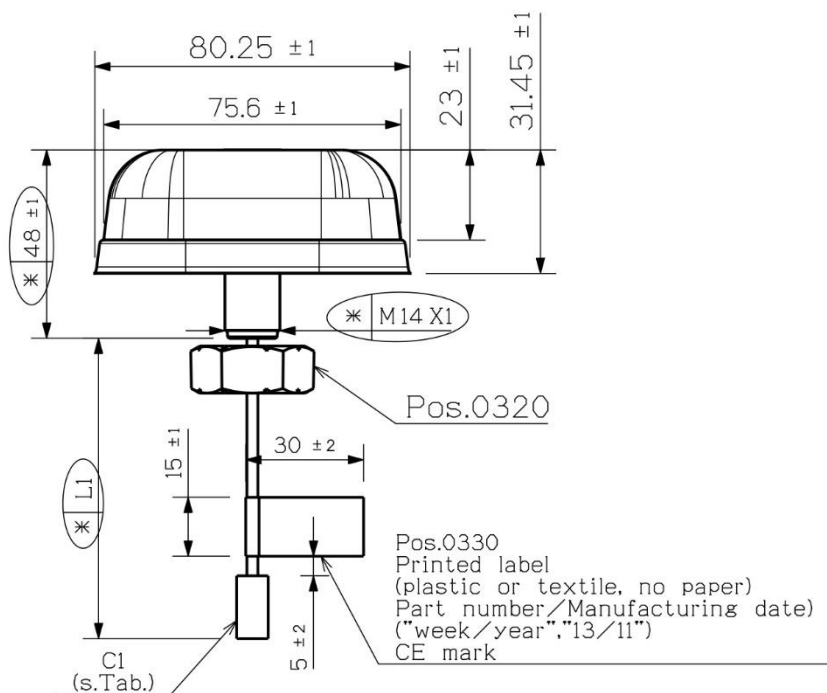
Technical data

Dimensions	app. 80 mm x 80 mm x 31 mm
Housing material	ASA-PC
Temperature range	Operations: -45 – +85 °C Storage: -45 – +85 °C
Protection class	IP6k9k (acc. ISO 20653)
Cellular	
Frequency range	LTE-LB: 698 - 862 MHz GSM 850: 824 - 894 MHz GSM 900: 880 - 960 MHz GSM 1800: 1710 - 1880 MHz GSM 1900: 1850 - 1990 MHz UMTS: 1920 - 2170 MHz LTE-HB: 2305 - 2690 MHz
Impedance	50 Ohm
VSWR	typ. ≤ 2,0
Gain	typ. 0 dBi ¹⁾
Polarization	linear, vertical
Load capacity	min. 8 W pulsed acc. GSM standard
Cable type	RG 174 low loss
Cable length	1000 +10 mm ²⁾
Connector	SMA male straight ²⁾

¹⁾ dBi: referenced to an isotropic radiator

²⁾ Other types on request

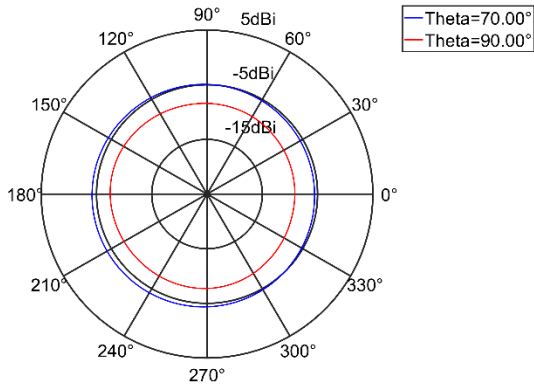
Technical drawings



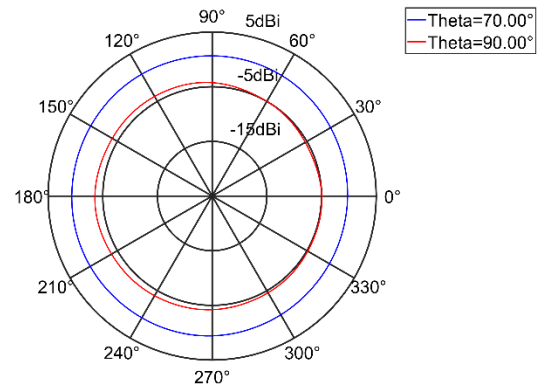
Antenna diagrams

Measurement on metal ground

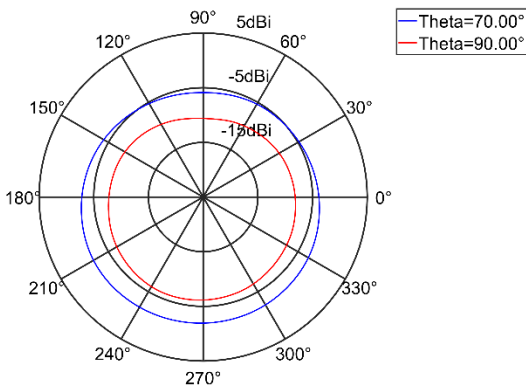
radiation pattern of the antenna (azimuth cut)
 realized gain (E_Total, Freq = 698.00 MHz)



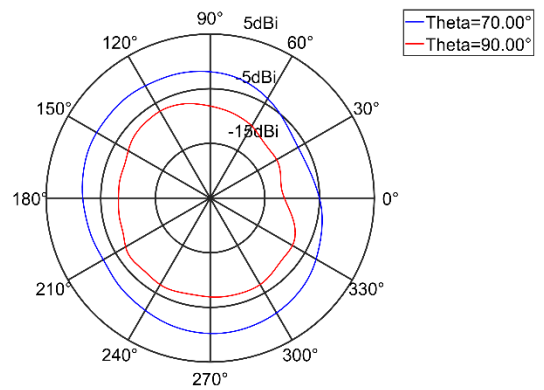
radiation pattern of the antenna (azimuth cut)
 realized gain (E_Total, Freq = 830.00 MHz)



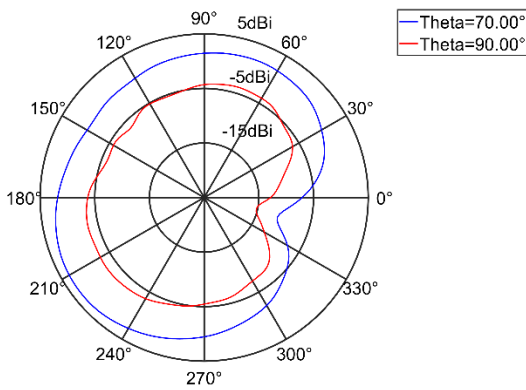
radiation pattern of the antenna (azimuth cut)
 realized gain (E_Total, Freq = 960.00 MHz)



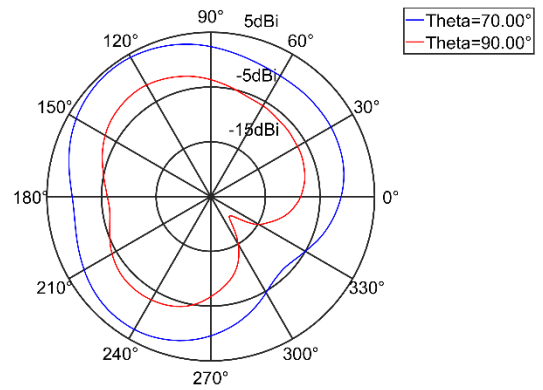
radiation pattern of the antenna (azimuth cut)
 realized gain (E_Total, Freq = 1710.00 MHz)



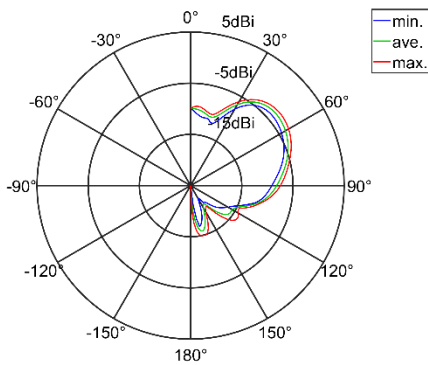
radiation pattern of the antenna (azimuth cut)
 realized gain (E_Total, Freq = 2170.00 MHz)



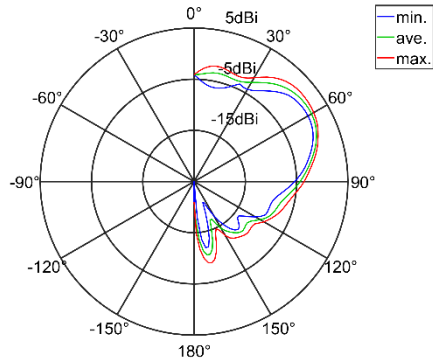
radiation pattern of the antenna (azimuth cut)
 realized gain (E_Total, Freq = 2690.00 MHz)



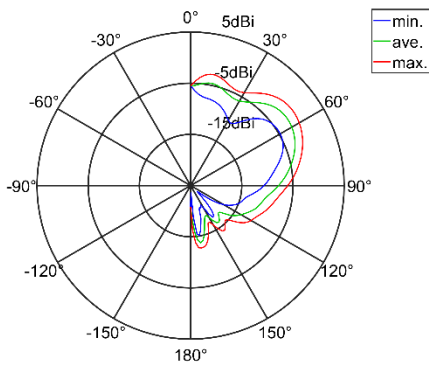
radiation pattern of the antenna (elevation cut)
 realized gain (E_Total, Freq = 698.00 MHz)



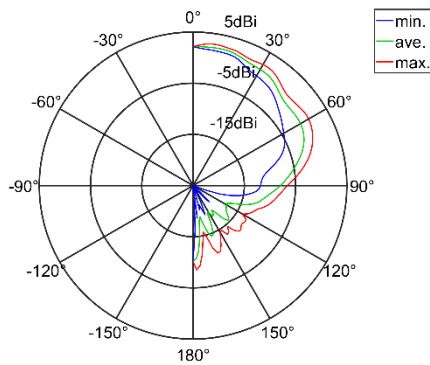
radiation pattern of the antenna (elevation cut)
 realized gain (E_Total, Freq = 830.00 MHz)



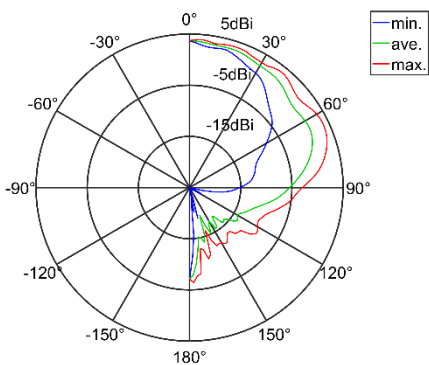
radiation pattern of the antenna (elevation cut)
 realized gain (E_Total, Freq = 960.00 MHz)



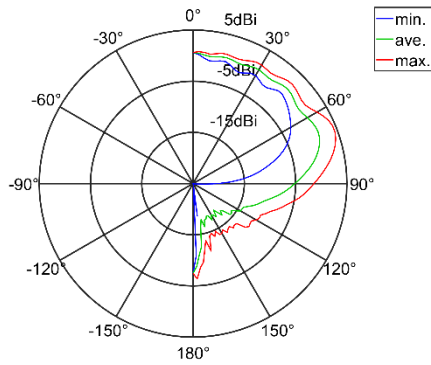
radiation pattern of the antenna (elevation cut)
 realized gain (E_Total, Freq = 1710.00 MHz)



radiation pattern of the antenna (elevation cut)
 realized gain (E_Total, Freq = 2170.00 MHz)



radiation pattern of the antenna (elevation cut)
 realized gain (E_Total, Freq = 2690.00 MHz)



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