

## K98LLR\_0300\_29\_29\_XX\_N8.1

Planar combination antenna: MIMO LTE

Roof mount PC/ABS, base PC/ABS, thread length 17 mm

GSM 700/850/900/1800/1900 MHz + UMTS (4G), incl. LTE Band: 1,2,3,4,5,8,25,26,  
+ Band 7,13,20,28

- MIMO antenna LTE and/or WLAN 2400/5300 MHz
- flame-retardant according to ECE-R 118 for vehicle interiors
- all cables used are flame-retardant according to ECE-R 118
- watertight IP 69K compliant housing is ultrasonically welded
- constant thread size



Similar image

## Agenda: K98LLR\_0300\_29\_29\_XX\_N8.1

K = Combination antenna  
 98 = Roof mount housing Ø 112 mm  
 L = LTE  
 L = LTE  
 R = Roofmount  
 0300 = Cable length in cm / Kabeltyp: Leoni Dacar302  
 29 = STE029 Fakra(f) D  
 29 = STE029 Fakra(f) D  
 N8.1 = R118 Flameresistant  
     Thread length 17mm  
     Coloured heat shrink tube

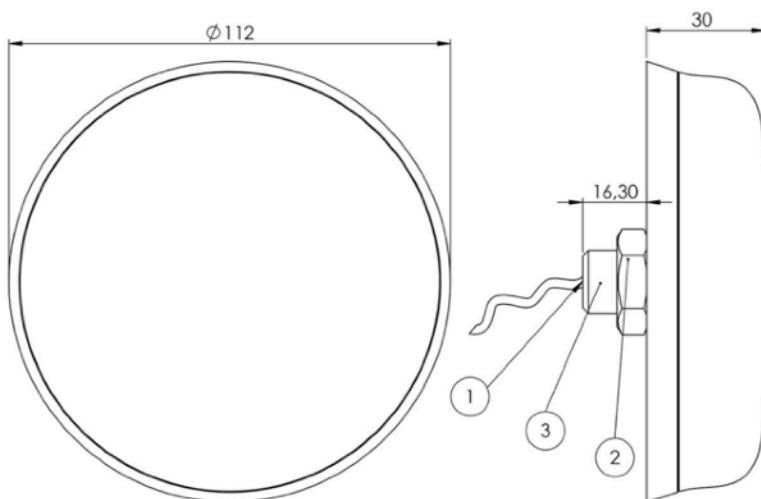
## Mechanical data

Dimension (Ø x H): appr. 112 mm x 30 mm

Thread length: 17 mm

Temperature range: -40 °C bis +85 °C

Housing: Complete with slotted plastic nut



POS-NR.	BENENNUNG
1	Kabeleingang
2	Mutter M16 x 1.5
3	Gewinde M16 x 1.5

## Technical data

(measured with 0.6 m cable on a ground plane of 300 mm x 300 mm)

### GSM 4G

Frequency range: 700/850/900/1800/1900 MHz + UMTS + LTE Band 7,13,20,28  
(4G) inkl. LTE Band: 1,2,3,4,5,8,25,26

VSWR\*: < 2.0 typically

Peak Gain\*:

- 9 dBi typ. (700 MHz)
- ±0 dBi typ. (800 MHz)
- +3 dBi typ. (900 MHz)
- +3 dBi typ. (1800 MHz)
- +1 dBi typ. (2100 MHz/UMTS)
- +2 dBi typ. (2600 MHz)

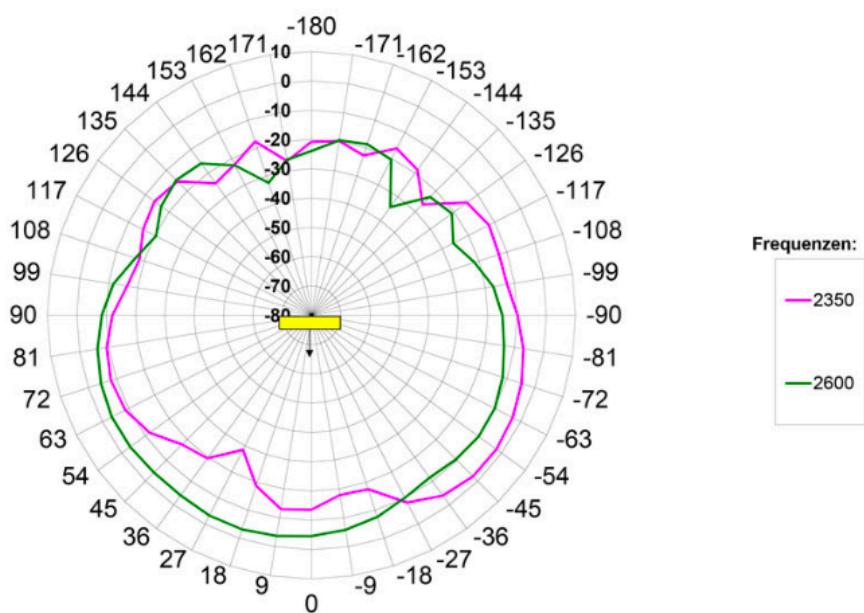
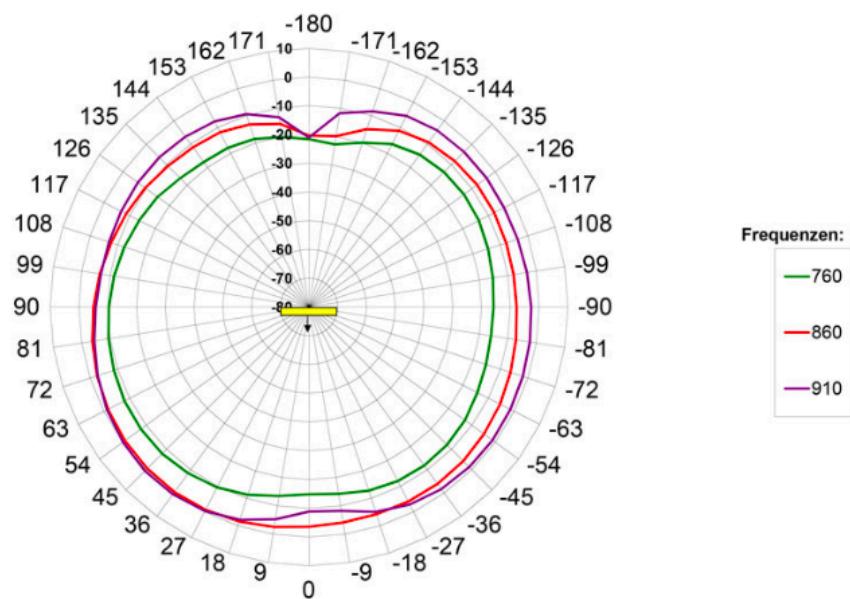
Power max.: 10 W

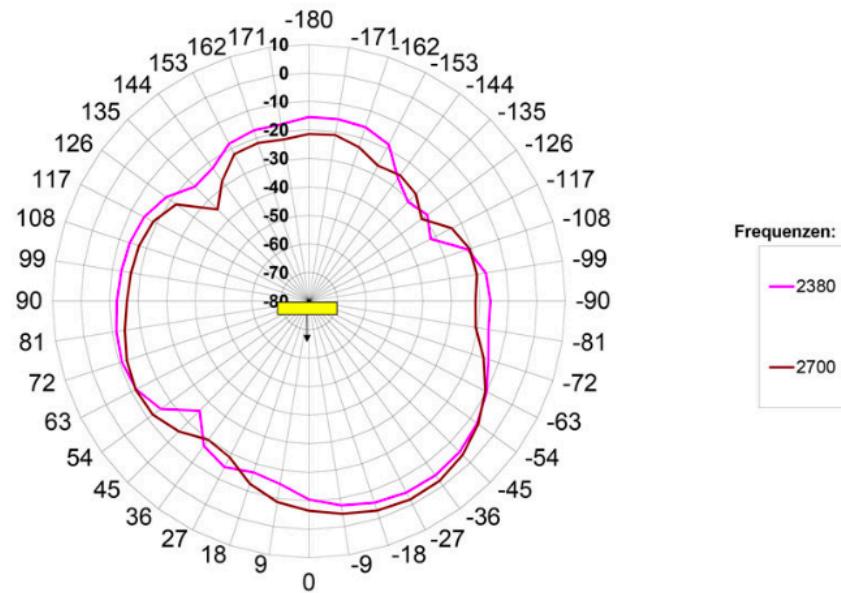
Diagnostic resistance: signal to ground: 10 kOhm (others on request)

## Diagramme

(measured with 0.6 m cable on a ground plane of 300 mm x 300 mm)

### GSM





## Approvals/Tests

- ECE-R 118, flame retardant, housing material REEL PC/ABS, test report no. 16-00343-CC-BWG-00
- ECE-R 118, flame retardant, sealant REEL FLEX B118, test report no. 16-00344-CC-BWG-00
- Density IP69K

## Installation instructions

- Installation instructions for roof mount antennas, ROOFMOUNT
- Important: Please observe the maximum tightening torque of the M16x1.5 mounting nut
- housing 98 with plastic base PS/ABS: min. 6 Nm to max. 8 Nm
- no additional ground plane required, the antenna has an internal ground plane.
- The radiation patterns have been measured on a ground plane of 300 mm x 300 mm, with a cable length of 60 cm.
- can be mounted on all clean, rust-free surfaces.
- the cable input can be optionally cast so the antenna can be mounted on an external carrier (PW, AW)
- mounting hole for all ROOFMOUNT antennas: 16.2 mm diameter (+ 2mm, -0mm)
- antenna 98 is basically watertight from ultrasonic welding, with an optional cast cable input, IP69K compliant.