

K98PPPPGAR_0300_29_29_29_29_28_R118

Planar combination antenna: Double MIMO 5G 3,4-3,8 GHz + LTE, GPS/GNSS/Galileo/BeiDou (B1)

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 + 5G 3,4-3,8 GHz + navigation: GPS, Glonass, Galileo, BeiDou (B1) high gain

- MIMO antenna 5G/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: K98PPPPGAR_0300_29_29_29_29_28_N8

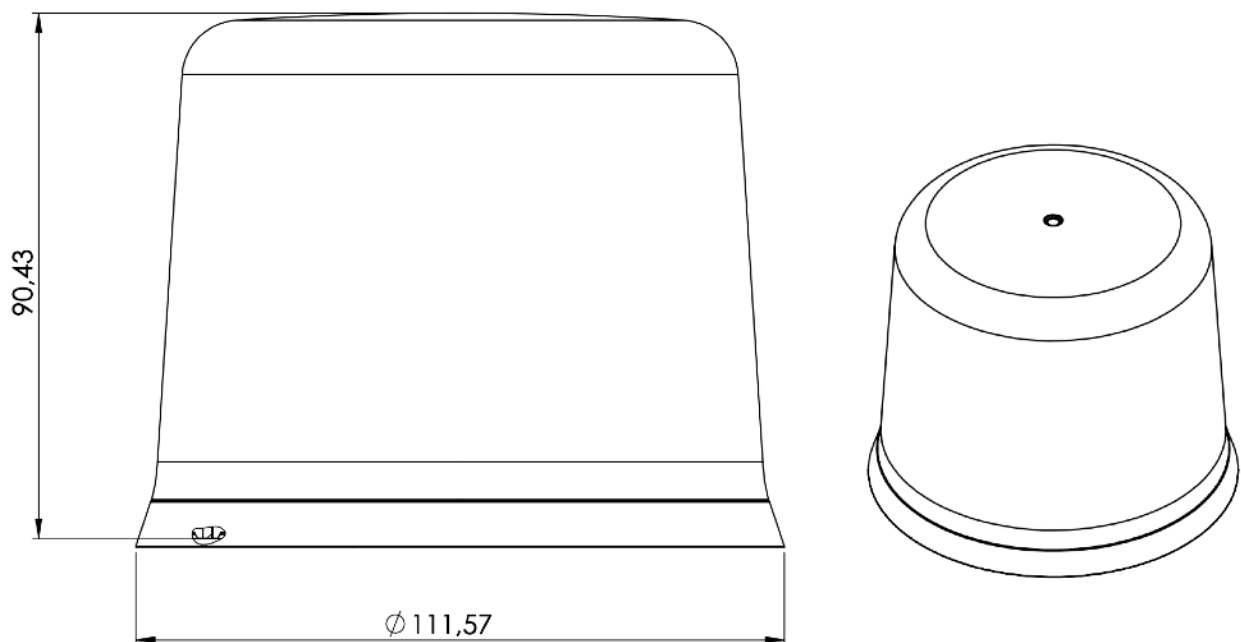
K	= Combination antenna
98	= Roof mount housing \varnothing 112 mm
P	= 5G 3400-3800 MHz + LTE
P	= 5G 3400-3800 MHz + LTE
P	= 5G 3400-3800 MHz + LTE
P	= 5G 3400-3800 MHz + LTE
GA	= GPS / GNSS / Galileo / BeiDou (B1)
R	= Roofmount
0300	= Cable length in cm / Kabeltyp: Leonie Dacar302
29	= STE029 Fakra(f) D
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29	= STE029 Fakra(f) D
29	= STE029 Fakra(f) D
28	= STE028 Fakra(f) C
R118	= R118 Flameresistant

Mechanical data

Dimension (\varnothing x H): appr. 112 mm x 90 mm

Thread length: 17 mm

Temperature range: -40 °C bis +85 °C



Technical data

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

GSM 4G/5G

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 + 5G 3400-3800 MHz

VSWR*: < 2.0 typically

Peak Gain*:

-16 dBi typ. (700 MHz)

-8 dBi typ. (800 MHz)

±0 dBi typ. (900 MHz)

+1 dBi typ. (1800 MHz)

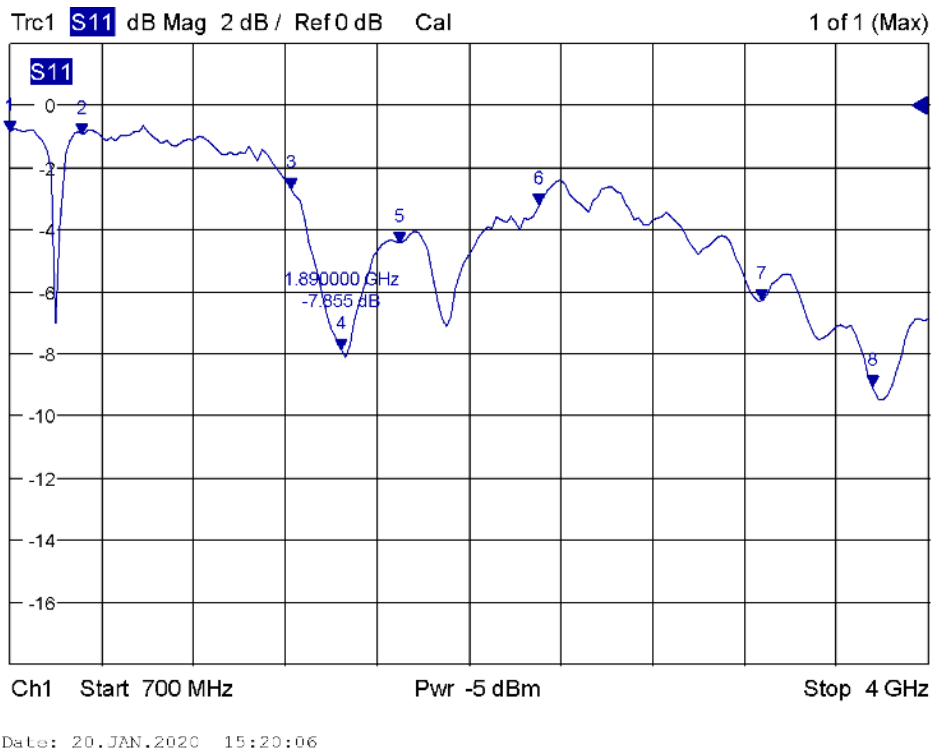
+2 dBi typ. (2100 MHz/UMTS)

+2 dBi typ. (2600 MHz)

+5 dBi typ. (3600 MHz)

Power max.: 10 W

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



Marker 1: 700 MHz

Marker 2: 960 MHz

Marker 3: 1710 MHz

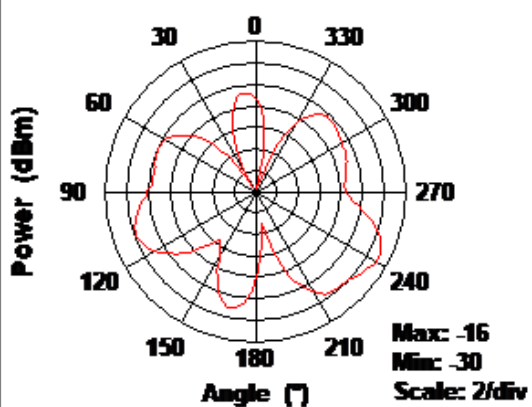
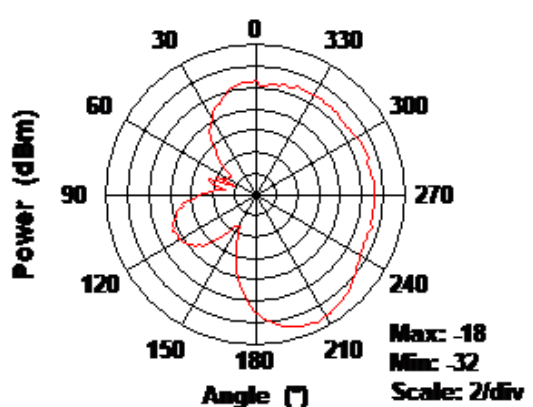
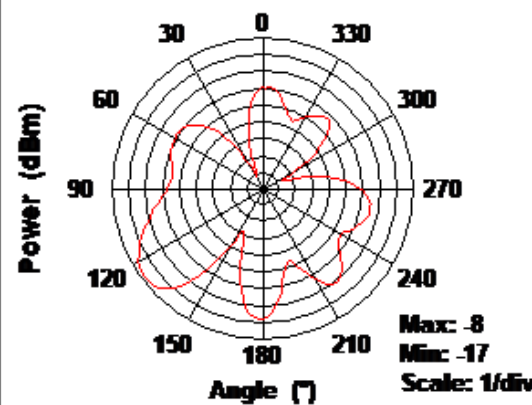
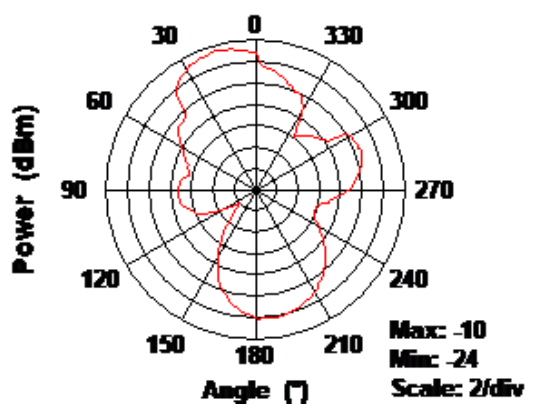
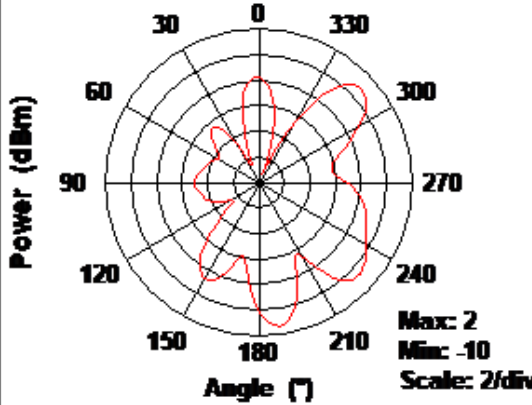
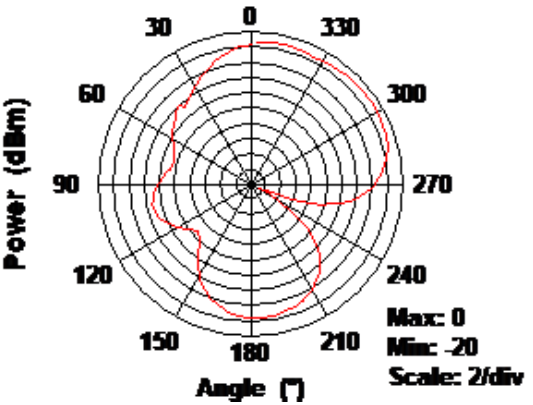
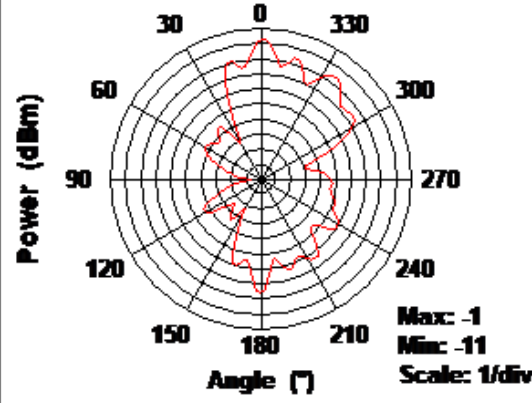
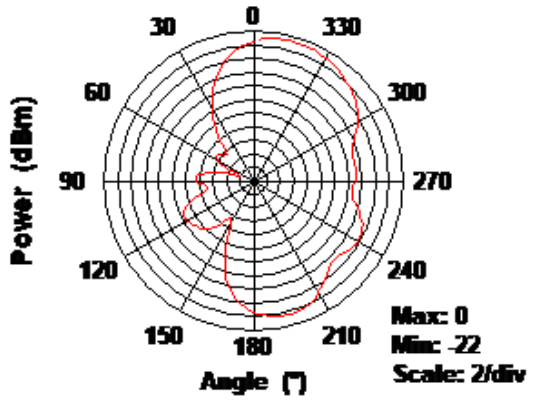
Marker 4 : 1890 MHz

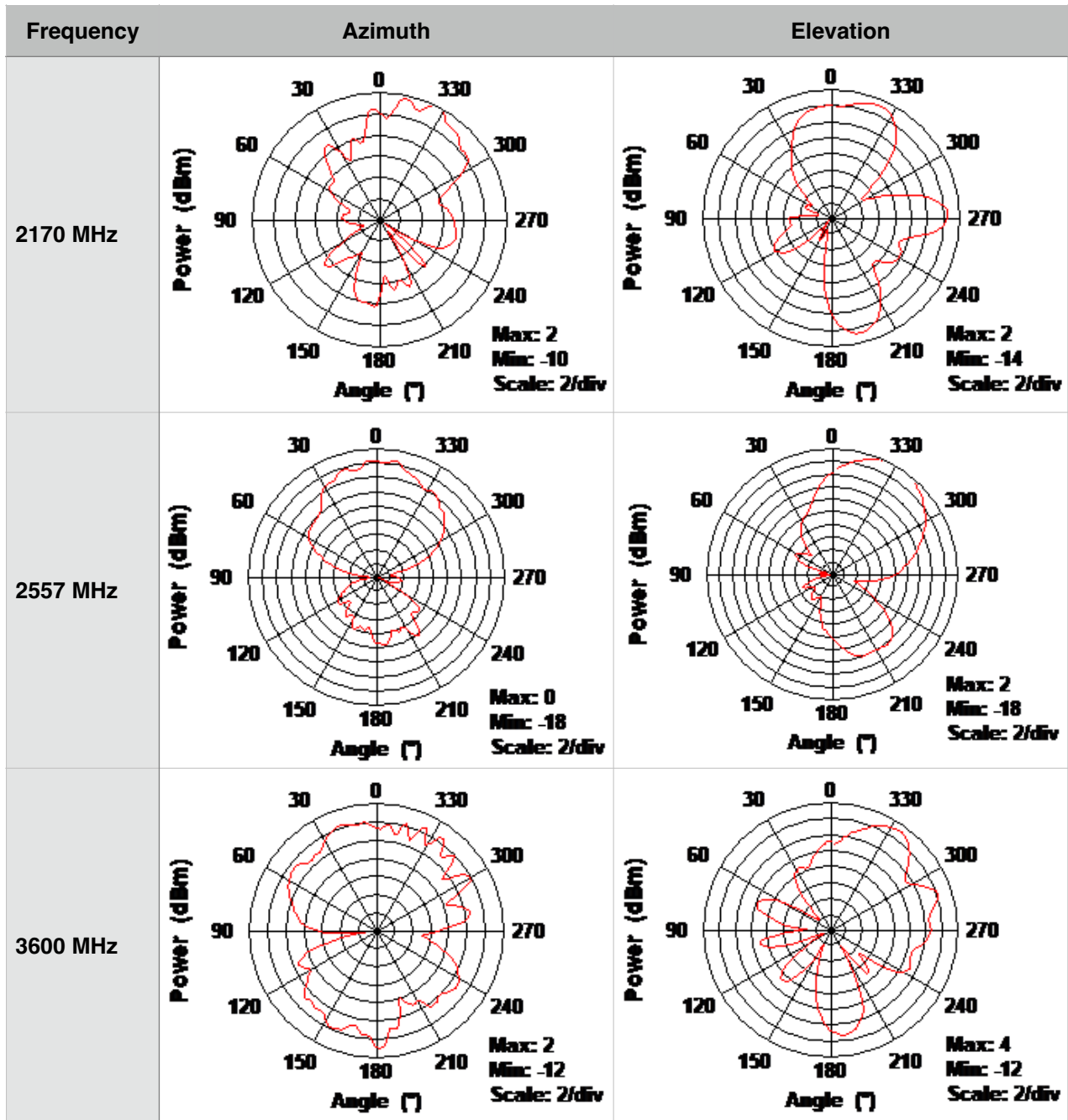
Marker 5: 2100 MHz

Marker 6: 2600 MHz

Marker 7: 3400 MHz

Marker 8: 3800 MHz

Frequency	Azimuth	Elevation
700 MHz	 <p>Max: -16 Min: -30 Scale: 2/div</p>	 <p>Max: -18 Min: -32 Scale: 2/div</p>
788 MHz	 <p>Max: -8 Min: -17 Scale: 1/div</p>	 <p>Max: -10 Min: -24 Scale: 2/div</p>
915 MHz	 <p>Max: 2 Min: -10 Scale: 2/div</p>	 <p>Max: 0 Min: -20 Scale: 2/div</p>
1780 MHz	 <p>Max: -1 Min: -11 Scale: 1/div</p>	 <p>Max: 0 Min: -22 Scale: 2/div</p>



Navigation

GPS / Glonass / Galileo / BaiDou (B1)

Frequency range: 1575,42 MHz bis 1609 MHz

Min/Max: 1560 MHz / 1625 MHz

VSWR: 1,5 typ.

Peak Gain: + 25 dBi typ.

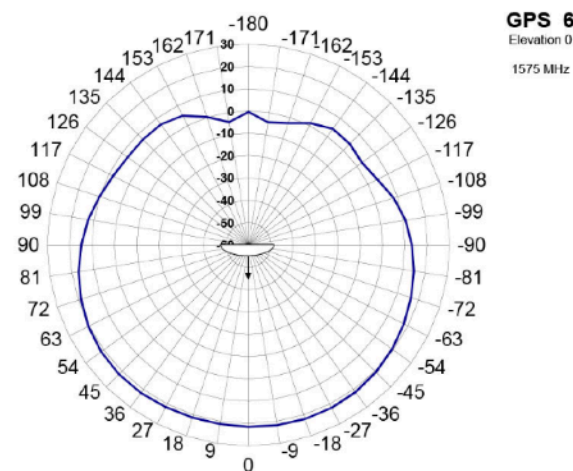
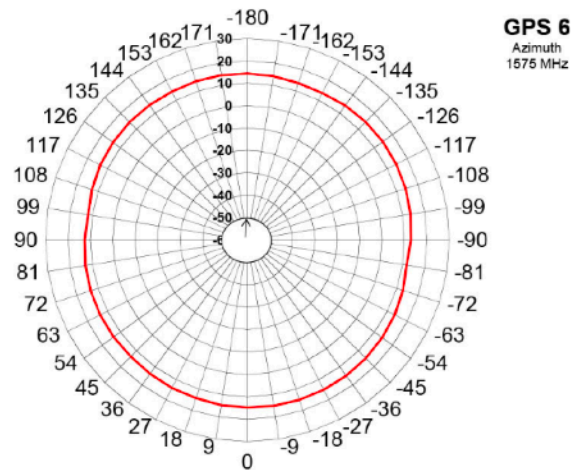
Power supply: 3 V bis 5 V ; 11,5 mA typ.

Maximum values of the amplifier:

Power supply: +6 VDC

Maximum input power: -15 dBm

Maximum current consumption: 13 mA



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.