

### Antenna Data

Docu N°  
 VEGAZW-6-44900  
 VEGAZW-6-44902  
 March 13, 2018

PMN: VEGAPULS WL S 61  
 HVIN: PSWLS61  
 FCC: O6QPSWL61  
 IC: 3892A-PSWL61

## 1. VEGAPULS WL S 61 Encapsulated Plastic Horn Antenna



### 1.1 Electrical Data (at center frequency)

center frequency	25,3 GHz
antenna gain	25,07 dBi
bandwidth (15 dB)	2,7 GHz (-1,8 GHz/+0,9 GHz)
HPBW (E-plane)	8,55°
HPBW (H-plane)	10,50°
side lobe suppression (E-plane)	18,83 dB (1 <sup>st</sup> side lobe at +13,0°) 20,00 dB (1 <sup>st</sup> side lobe at -14,0°)
side lobe suppression (H-plane)	22,17 dB (1 <sup>st</sup> side lobe at +17,0°) 21,83 dB (1 <sup>st</sup> side lobe at -18,0°)
input impedance	50 Ω
polarization	linear

### 1.2 Mechanical Data

antenna diameter	82,0 mm
temperature range	-40...+60°C
process pressure	-1...+2 bar
wetted parts	PP (Polypropylene), PBT (Polybutylene terephthalate), VMQ (sealing)

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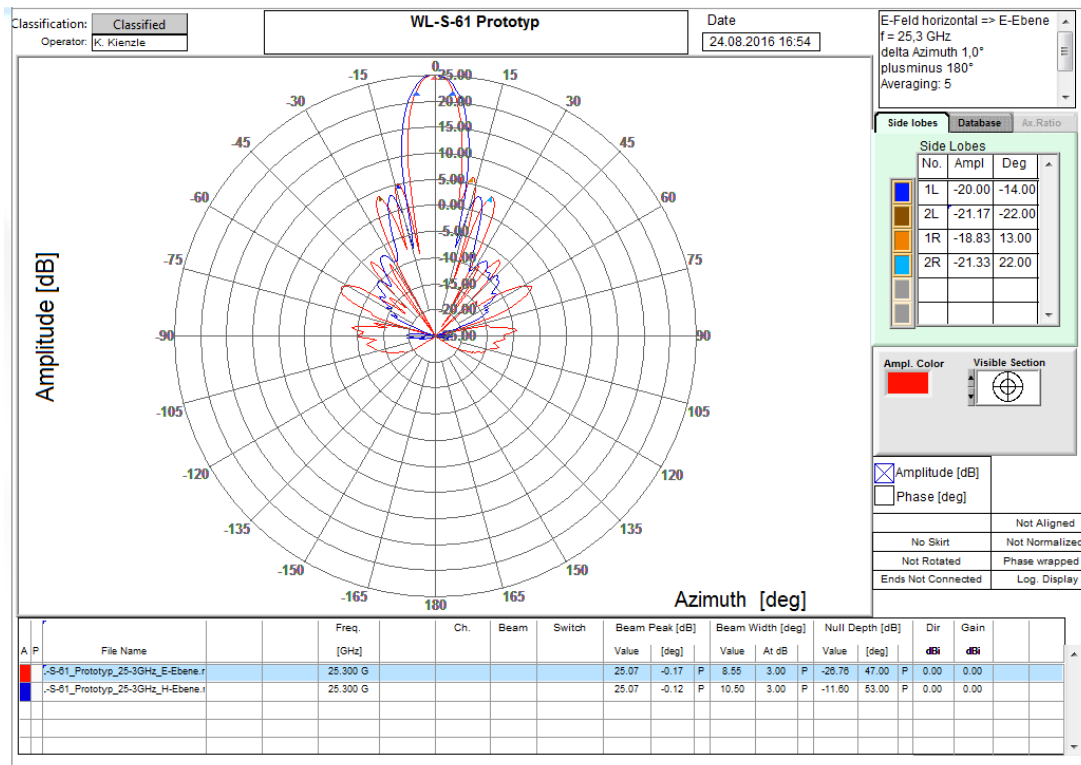
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electrical connection	VEGA explosion proof separation (SMA connector)
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### 1.3 Antenna Patterns

Red curve: E-plane, blue curve: H-plane

#### a) Polar Diagram



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b) Cartesian Diagram

