

# Dual-band A-Panel Dual Polarization Half-power Beam Width Integrated Combiner

|     |      |
|-----|------|
| 900 | 1800 |
| X   | X    |
| 65° | 60°  |
| C   |      |

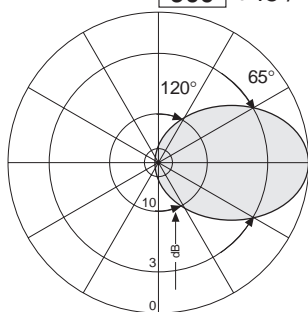
**KATHREIN**  
Antennen · Electronic

## XXPol A-Panel 900/1800 C 65°/60° 17/18dBi

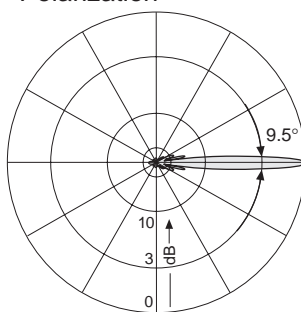
| Type No.   | 741 322  |  |
|--|--|--|
| Frequency range  | <b>900</b><br>870 – 960 MHz                                      | <b>1800</b><br>1710 – 1880 MHz             |
| Polarization   | +45°, –45°   | +45°, –45°                                 |
| Gain   | 2 x 17 dBi   | 2 x 18 dBi                                 |
| Half-power beam width<br>Copolar +45°/–45°               | Horizontal: 65°<br>Vertical: 9.5°                                | Horizontal: 60°<br>Vertical: 5.5°          |
| Sidelobe suppression for<br>first sidelobe above horizon | > 15 dB  | > 15 dB                                    |
| Front-to-back ratio, copolar                             | > 30 dB  | > 30 dB                                    |
| Isolation, between ports                                 | > 30 dB  | > 30 dB                                    |
| Impedance  | 50 Ω   | 50 Ω                                       |
| VSWR   | < 1.5  | < 1.5                                      |
| Intermodulation IM3<br>(2 x 43 dBm carrier)              | < –150 dBc   | < –150 dBc                                 |
| Max. power per input                                     | 250 Watt<br>(at 50 °C ambient temperature)                       | 150 Watt<br>(at 50 °C ambient temperature) |
| Integrated combiner                                      | The insertion loss is included in the given antenna gain values. |  |



**900** +45°/–45° Polarization

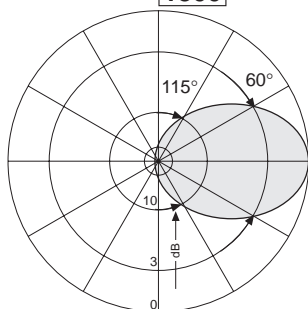


Horizontal Pattern

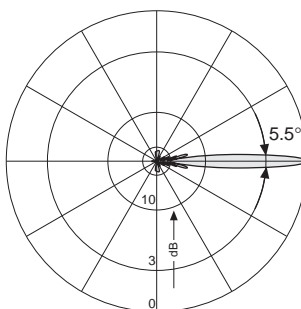


Vertical Pattern

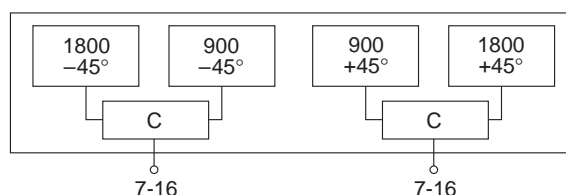
**1800** +45°/–45° Polarization



Horizontal Pattern



Vertical Pattern



### Mechanical specifications

|                     |   |
|---------------------|---|
| Input               | 2 x 7-16 female   |
| Connector position* | Bottom or top   |
| Weight              | 19 kg   |
| Wind load           | Frontal: 330 N (at 150 km/h)<br>Lateral: 200 N (at 150 km/h)<br>Rearside: 770 N (at 150 km/h) |
| Max. wind velocity  | 200 km/h  |
| Packing size        | 2057 x 287 x 165 mm   |
| Height/width/depth  | 1936 / 262 / 116 mm   |

\* Inverted mounting:  
Connector position top: Change drain hole screw.