

Multi-band F-Panel Dual Polarization Half-power Beam Width Adjust. Electrical Downtilt

1710–2170

X

65°

0°–6°

KATHREIN

Antennen · Electronic

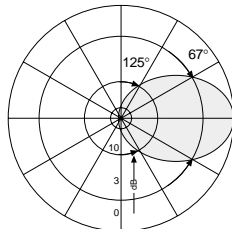
set by hand or by optional RCU (remote control unit)

XPol F-Panel 1710–2170 65° 19.5dBi 0°–6°T

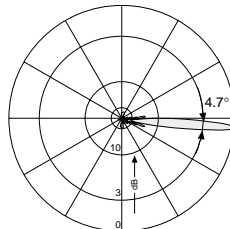
Type No.	742 213		
Frequency range	1710–2170		
	1710 – 1880 MHz	1850 – 1990 MHz	1920 – 2170 MHz
Polarization	+45°, –45°	+45°, –45°	+45°, –45°
Gain	2 x 19 dBi	2 x 19.2 dBi	2 x 19.5 dBi
Half-power beam width Copolar +45°/–45°	Horizontal: 67° Vertical: 4.7°	Horizontal: 65° Vertical: 4.5°	Horizontal: 63° Vertical: 4.3°
Electrical tilt continuously adjustable	0°–6°	0°–6°	0°–6°
Sidelobe suppression for first sidelobe above horizon	0° ... 2° ... 4° ... 6°T 18 ... 17 ... 15 ... 15 dB	0° ... 2° ... 4° ... 6°T 18 ... 18 ... 17 ... 15 dB	0° ... 2° ... 4° ... 6°T 18 ... 18 ... 17 ... 15 dB
Front-to-back ratio (180° ± 30°)	Copolar: > 30 dB Total power: > 25 dB	Copolar: > 30 dB Total power: > 25 dB	Copolar: > 30 dB Total power: > 25 dB
Cross polar ratio Maindirection Sector	0° ±60° Typically: 25 dB > 10 dB	Typically: 25 dB > 10 dB	Typically: 25 dB > 10 dB
Isolation, between ports	> 30 dB	> 30 dB	> 30 dB
Impedance	50 Ω	50 Ω	50 Ω
VSWR	< 1.5	< 1.5	< 1.5
Intermodulation IM3 (2 x 43 dBm carrier)	< –150 dBc		
Max. power per input	300 Watt (at 50 °C ambient temperature)		



1710 – 1880 MHz: +45°/–45° Polarization

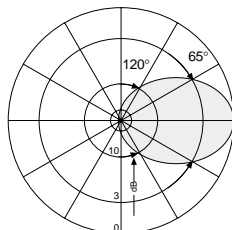


Horizontal Pattern

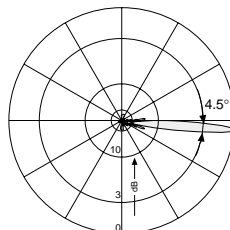


Vertical Pattern
0°–6° electrical downtilt

1850 – 1990 MHz: +45°/–45° Polarization

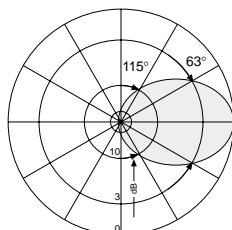


Horizontal Pattern

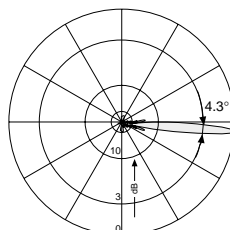


Vertical Pattern
0°–6° electrical downtilt

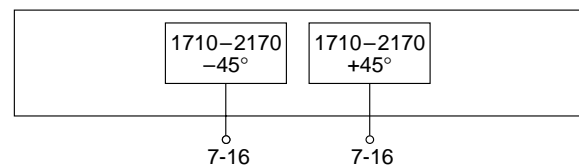
1920 – 2170 MHz: +45°/–45° Polarization



Horizontal Pattern

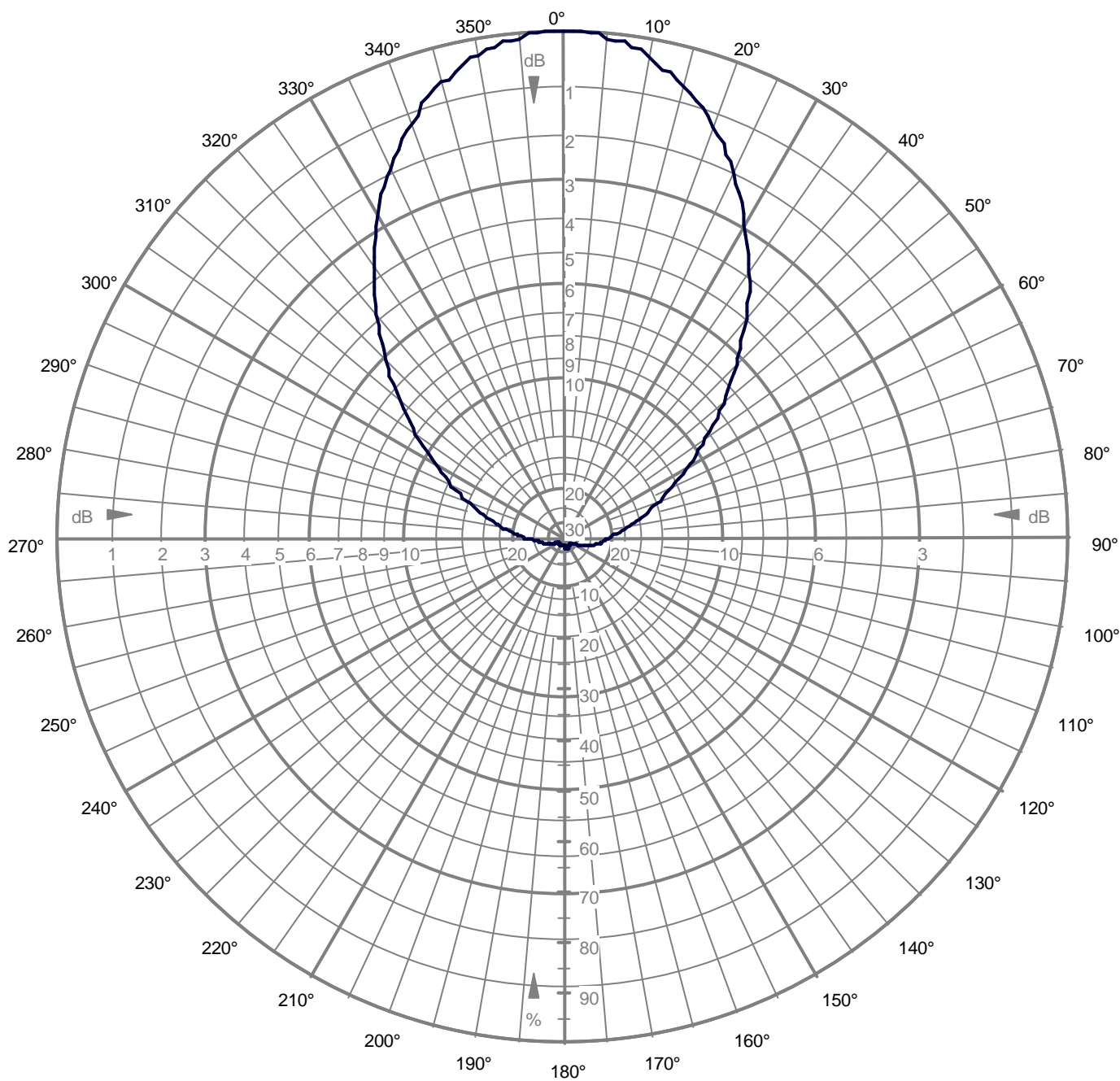


Vertical Pattern
0°–6° electrical downtilt

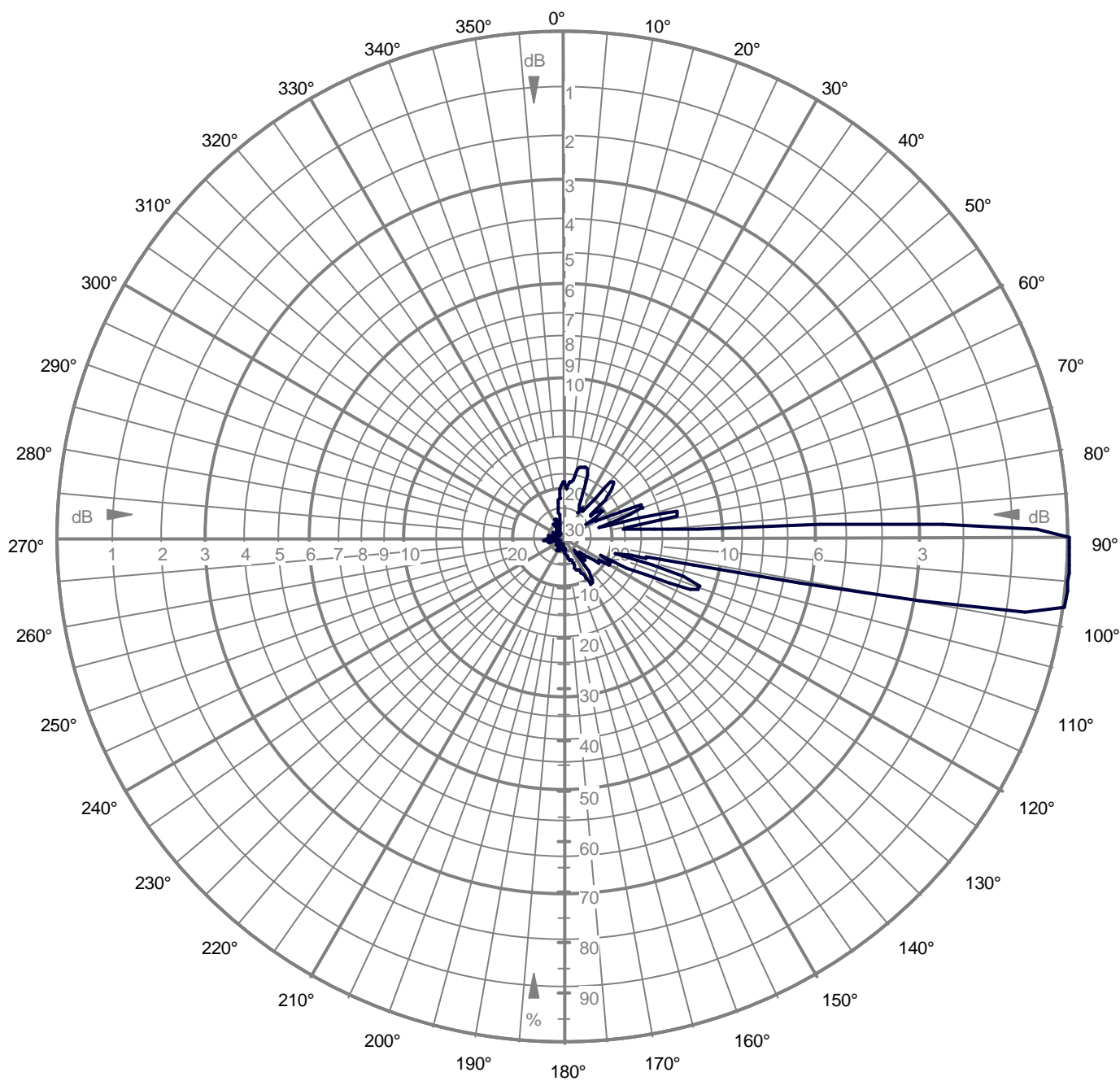


Mechanical specifications

Input	2 x 7-16 female
Connector position	Bottom
Adjustment mechanism	1x, Position bottom continuously adjustable
Weight	10 kg
Wind load	Frontal: 195 N (at 150 km/h) Lateral: 160 N (at 150 km/h) Rearside: 480 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	2384 x 172 x 92 mm
Height/width/depth	1942 / 155 / 69 mm



KATHREIN	Date 29.11.2002,	Horizontal Radiation Pattern 2170 MHz	Type 742213
	Name		



KATHREIN	Date 29.11.2002,	Vertical Radiation Pattern 2170 MHz	Type 742213
	Name		