

Panel B1
Frequency Range 1710–2170
Dual Polarization X
HPBW 30°
Adjust. Electr. DT 0°–8°
 set by hand or by optional RCU (Remote Control Unit)

KATHREIN

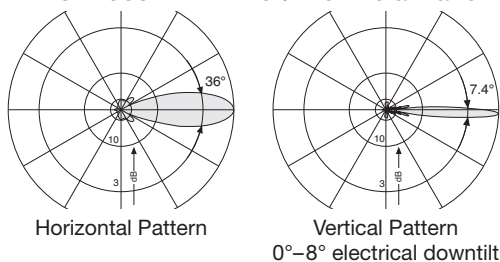


XPol Panel 1710–2170 30° 21dBi 0°–8°T

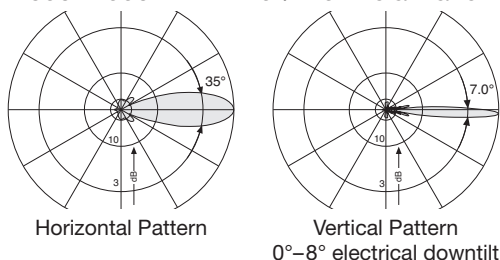
Type No.	742351v01		
	B1		
	1710–2170		
Frequency range	1710 – 1880 MHz	1850 – 1990 MHz	1920 – 2170 MHz
Polarization	+45°, –45°	+45°, –45°	+45°, –45°
Gain	2 x 20.2 dBi	2 x 20.5 dBi	2 x 20.7
Horizontal Pattern:			
Half-power beam width	36°	35°	33°
Front-to-back ratio, copolar	> 30 dB	> 30 dB	> 30 dB
Cross polar ratio			
Maindirection0°	Typically: 20 dB	Typically: 20 dB	Typically: 20 dB
Sector±60°	> 10 dB	> 10 dB	> 10 dB
Sidelobe suppression	> 14 dB	> 14 dB	> 14 dB
Tracking, Avg.	0.5 dB		
Squint	±1.0°		
Vertical Pattern:			
Half-power beam width	7.4°	7.0°	6.7°
Electrical tilt	0°–8°, continuously adjustable		
Sidelobe suppression for first sidelobe above main beam	0° ... 4° ... 8° T 18 ... 17 ... 16 dB	0° ... 4° ... 8° T 18 ... 18 ... 17 dB	0° ... 4° ... 8° T 18 ... 17 ... 16 dB
Impedance	50 Ω		
VSWR	< 1.5		
Isolation, between ports	> 30 dB		
Intermodulation IM3	< –150 dBc (2 x 43 dBm carrier)		
Max. effective power per port	250 W (at 50 °C ambient temperature)		
Max. effective power for the antenna	500 W (at 50 °C ambient temperature)		



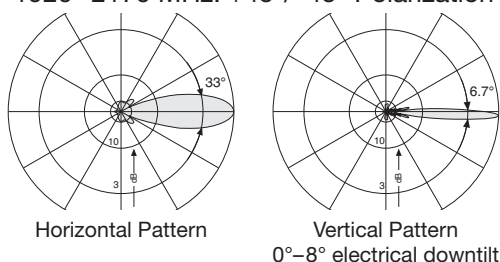
1710–1880 MHz: +45°/–45° Polarization



1850–1990 MHz: +45°/–45° Polarization



1920–2170 MHz: +45°/–45° Polarization



Mechanical specifications	
Input	2 x 7-16 female
Connector position	Bottom
Adjustment mechanism	1 x, Position bottom continuously adjustable
Wind load (N) [lbf]	Frontal: 540 [121] Lateral: 135 [30] Rearside: 640 [144]
Max. wind velocity (km/h) [mph]	200 [124]
Height/width/depth (mm) [inches]	1304 / 299 / 69 [51.3 / 11.8 / 2.7]
Category of mounting hardware	M (Medium)
Weight (kg) [lb]	14 / 16 (clamps incl.) [30.7 / 35.3 (clamps incl.)]
Packing size (mm) [inches]	1589 x 322 x 108 [62.6 x 12.7 x 4.6]
Scope of supply	Panel and 2 units of clamps for 42–115 mm [1.7–4.5 inches] diameter

936.4893/a Subject to alteration.

Accessories (order separately if required)

Type No.	Description	Remarks (mm) [inches]	Weight approx. (kg) [lb]	Units per antenna
731651	1 clamp	Mast diameter: 28 – 60 [1.1 – 2.4]	0.8 [1.8]	2
85010002	1 clamp	Mast diameter: 110 – 220 [4.3 – 8.7]	2.7 [6.0]	2
85010003	1 clamp	Mast diameter: 210 – 380 [8.3 – 15.0]	4.8 [10.6]	2
85010013	1 downtilt kit	Downtilt angle: 0° – 16°	3.7 [7.4]	1

Accessories (included in the scope of supply)

738546	1 clamp	Mast diameter: 42 – 115 [1.7 – 4.5]	1.1 [2.4]	2
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For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit.
Wall mounting: No additional mounting kit needed.

Material:

Reflector screen: Tin-plated copper. **Radiator:** Tin-plated zinc.
Flat fiberglass radome: The max. radome depth is only 69 mm [2.7 inches]. Fiberglass material guarantees optimum performance with regards to stability, stiffness, UV resistance and painting.
The color of the radome is grey.
All screws and nuts: Stainless steel.

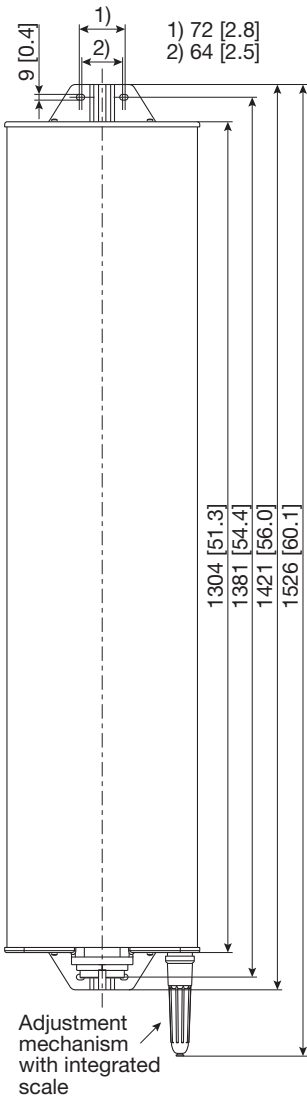
Grounding:

The metal parts of the antenna including the mounting kit and the inner conductors are DC grounded.



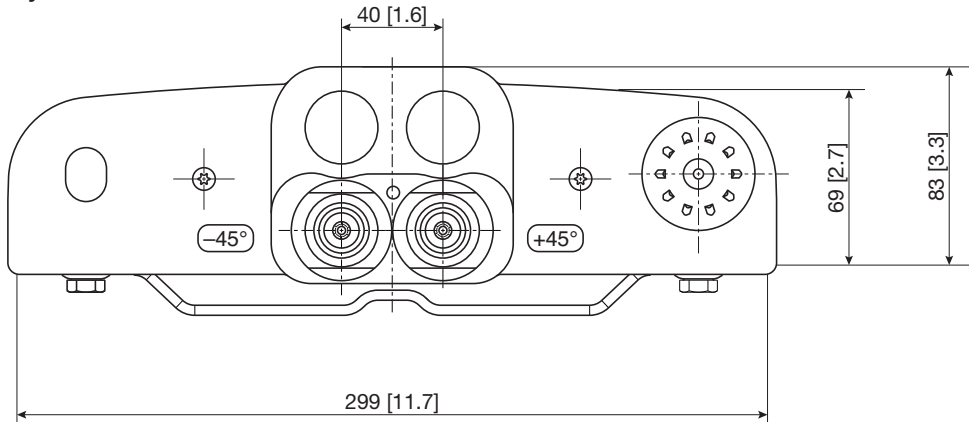
Correlation Table

Frequency range	Array	Connector
1710–2170 MHz	B1	1–2



Dimensions in mm and [inches]

Layout of interface:



Bottom view
Dimensions in mm and [inches]

Any previous data sheet issues have now become invalid.