

Dual-band A-Panel

Dual Polarization

Half-power Beam Width

Adjust. Electr. Downtilt

Integrated Combiner

824–960 **1710–1880**

X

X

65°

60°

0°–10°

2°

C

KATHREIN

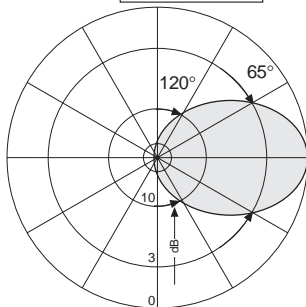
Antennen · Electronic

XXPol A-Panel 824–960/1800 C 65°/60° 14.5/16.5dBi 0°–10°T/2°T

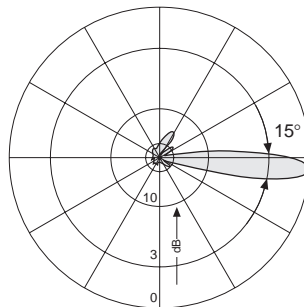
Type No.	742 151		
Frequency range	824–960 824 – 880 MHz 880 – 960 MHz		1710–1880 1710 – 1880 MHz
Polarization	+45°, –45°	+45°, –45°	+45°, –45°
Gain	2 x 14 dBi	2 x 14.5 dBi	2 x 16.5 dBi
Half-power beam width Copolar +45°/–45°	Horizontal: 70° Vertical: 16°	Horizontal: 65° Vertical: 15°	Horizontal: 60° Vertical: 8°
Electrical tilt	0°–10°	0°–10°	2°
Sidelobe suppression for first sidelobe above horizon	0° ... 6° ... 10°T 16 ... 14 ... 12 dB	0° ... 6° ... 10°T 18 ... 16 ... 14 dB	14 dB
Front-to-back ratio, copolar	> 30 dB	> 30 dB	> 30 dB
Cross polar ratio Maindirection Sector	0° ±60° Typically: 18 dB > 10 dB	Typically: 18 dB > 10 dB	Typically: 18 dB > 10 dB
Isolation, between ports	> 30 dB		> 30 dB
Impedance	50 Ω		50 Ω
VSWR	< 1.5		< 1.5
Intermodulation IM3 (2 x 43 dBm carrier)	< –150 dBc		< –150 dBc
Max. power per input	250 Watt (at 50 °C ambient temperature)		150 Watt
Integrated combiner	The insertion loss is included in the given antenna gain values.		



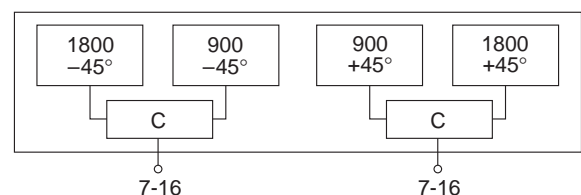
824–960 +45°/–45° Polarization



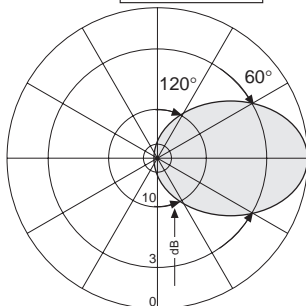
Horizontal Pattern



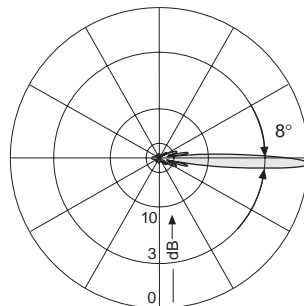
Vertical Pattern
0°–10° electrical downtilt
continuously adjustable



1710–1880 +45°/–45° Polarization



Horizontal Pattern



Vertical Pattern
2° electrical downtilt

Mechanical specifications

Input	2 x 7-16 female
Connector position	Bottom
Adjustment mechanism	1x, Position bottom continuously adjustable
Weight	14 kg
Wind load	Frontal: 230 N (at 150 km/h) Lateral: 130 N (at 150 km/h) Rearside: 500 N (at 150 km/h)
Max. wind velocity	200 km/h
Packing size	1422 x 287 x 165 mm
Height/width/depth	1296 / 262 / 116 mm