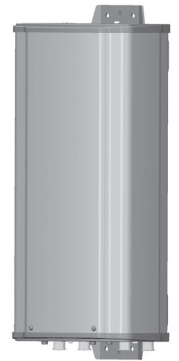


4-Port Antenna	R1	Y1
Frequency Range	698-960	1695-2690
Dual Polarization	X	X
HPBW	65°	65°
Fixed Electr. DT	2°	2°

4-Port Antenna 698-960/1695-2690 65°/65° 11/13.5dBi 2°/2°T

Type No.		80010715		
Lowband		R1, connector 1-2		
		698-960		
Frequency range	MHz	698 - 824 MHz	824 - 894 MHz	880 - 960 MHz
Polarization	°	+45, -45	+45, -45	+45, -45
Average gain	dBi	10.5	11	11
Horizontal Pattern:				
Half-power beam width	°	70	68	68
Front-to-back ratio, copolar (180°±30°)	dB	> 23	> 25	> 27
Cross polar ratio Maindirection Sector	0° ±60° dB	Typically: 25 > 8	Typically: 28 > 10	Typically: 28 > 10
Vertical Pattern:				
Half-power beam width	°	40	36	34
Electrical tilt	°	2, fixed		
Impedance	Ω	50		
VSWR		< 1.5		
Isolation: Intrasystem	dB	> 27, typ. > 30	> 30	> 28, typ. > 30
Isolation: Intersystem	dB	> 26, typ. 30 (R1 // Y1)		
Intermodulation IM3	dBc	< -153 (2 x 43 dBm carrier)		
Max. effective power per port	W	250 (at 50 °C ambient temperature)		
Max. effective power for the antenna		400 (at 50 °C ambient temperature)		



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Highband		Y1, connector 3-4				
		1695-2690				
Frequency range	MHz	1695 – 1880	1850 – 1990	1920 – 2180	2200 – 2490	2490 – 2690
Polarization	°	+45, -45	+45, -45	+45, -45	+45, -45	+45, -45
Average gain	dBi	13.5	14.0	14.0	14.0	13.8
Horizontal Pattern:						
Half-power beam width	°	60	55	55	55	65
Front-to-back ratio, copolar (180°±30°)	dB	> 26	> 27	> 27	> 27	> 27
Cross polar ratio						
Main direction	0°	Typically: 25	28	28	22	28
Sector	±60°	> 10	> 10	> 10	> 10	> 10
Vertical Pattern:						
Half-power beam width	°	17.5	16.5	15.5	14.5	12.7
Electrical tilt	°	2, fixed				
Impedance	Ω	50				
VSWR		< 1.55			< 1.5	
Isolation: Intrasystem	dB	> 26, typ. > 31			> 30, typ. > 31	
Isolation: Intersystem	dB	> 30 (Y1 // R1)				
Intermodulation IM3	dBc	< -153 (2 x 43 dBm carrier)				
Max. effective power per port	W	200 (at 50 °C ambient temperature)				
Max. effective power for the antenna	W	400 (at 50 °C ambient temperature)				
Total power for the antenna	W	800 (at 50 °C ambient temperature)				



Correlation Table

Frequency range	Array	Connector
698-960 MHz	R1	1-2
1695-2690 MHz	Y1	3-4

Mechanical specifications			
Input	4 x 4.3-10 female		
Connector position	Bottom		
Wind load (at Rated Wind Speed: 150 km/h)	N lbf	Frontal:	110 25
		Maximal:	170 38
Max. wind velocity	km/h mph	241 150	
Height/width/depth	mm inches	603 / 300 / 152 23.7 / 11.8 / 6.0	
Category of mounting hardware	M (Medium)		
Weight	kg lb	8.5 / 10.7 (clamps incl.) 18.7 / 23.6 (clamps incl.)	
Packing size	mm inches	845 x 325 x 193 33.3 x 12.8 x 7.6	
Scope of supply	Panel and 2 units of clamps for 42-115 mm 1.7-4.5 inches diameter		

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Accessories

General Information

Accessories (order separately if required)

Type No.	Description	Remarks mm inches	Weight approx. kg lb	Units per antenna
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
737978	1 downtilt kit	Downtilt angle: 0° – 15°	2.3 5.1	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:

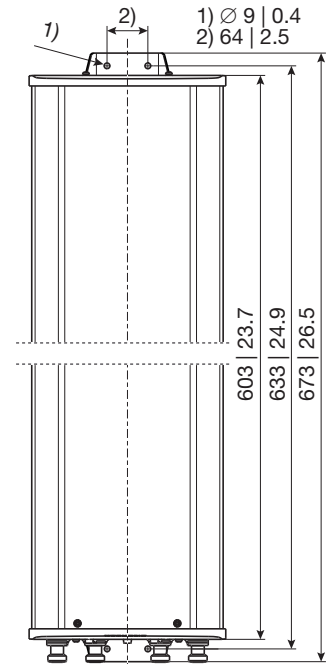
Reflector screen: Aluminum.

Fiberglass housing: It covers totally the internal antenna components. The special design reduces the sealing areas to a minimum and guarantees the best weather protection. Fiberglass material guarantees optimum performance with regards to stability, stiffness, UV resistance and painting. The color of the radome is light grey.

All nuts and bolts: Stainless steel or hot-dip galvanized steel.

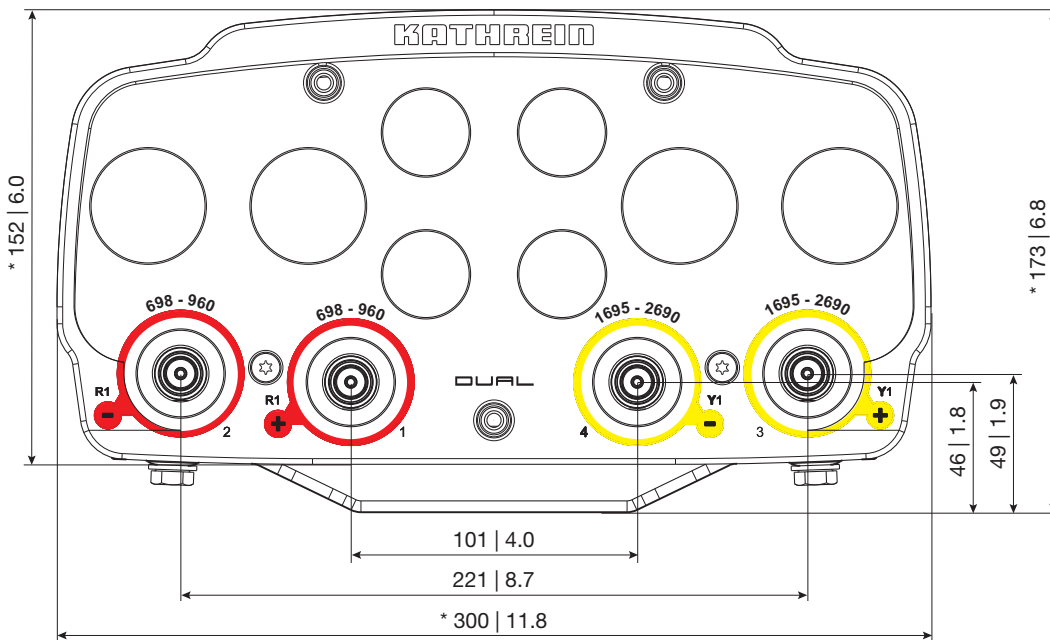
Grounding:

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



All dimensions
in mm | inches

Layout of interface:



Bottom view
* Dimensions refer to radome
All dimensions in mm | inches

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All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com