

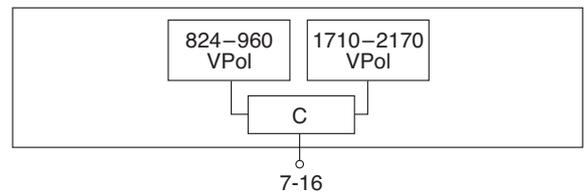
**1-Port Antenna
Vertical Polarization
HPBW
Integrated Combiner**

824-960	1710-2170
V	V
90°	82°
C	

KATHREIN

1-Port Antenna 824-960/1710-2170 C 90°/82° 10/11dBi

Type No.		80010046v01	
Frequency range	MHz	824 – 960	1710 – 2170
Polarization		Vertical	Vertical
Gain	dBi	10	11
Half-power beam width	°	Horizontal: 90 Vertical: 33	Horizontal: 82 Vertical: 19
Front-to-back ratio	dB	> 18	> 20
Impedance	Ω	50	50
VSWR		< 1.5	< 1.5
Intermodulation IM3 (2 x 43 dBm carrier)	dBc	< -150	< -150
Max. power per input	W	100 (at 50 °C ambient temperature)	



Mechanical specifications		
Input	1 x 7-16 female	
Connector position*	Bottom or top	
Wind load (at Rated Wind Speed: 150 km/h)	N lbf	Frontal: 105 24 Maximal: 105 24
Max. wind velocity	km/h mph	200 124
Height / width / depth	mm inches	662 / 155 / 69 26.1 / 6.1 / 2.7
Category of mounting hardware	L (Light)	
Weight	kg lb	5.0 (tension bands incl.) 11.0 (tension bands incl.)
Packing size	mm inches	804 x 172 x 92 31.7 x 6.8 x 3.6
Scope of Supply	Panel and 1 unit of tension bands for 45-125 mm 1.8-4.9 inches diameter	

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

936.4460/c Subject to alteration.

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

Accessories

General Information

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Accessories (order separately if required)

Type No.	Description	Remarks mm inches	Weight approx. kg lb	Units per antenna
734365	2 tension bands	Mast diameter: 45 – 125 1.8 – 4.9	0.08 0.18	1
734360	2 tension bands	Mast diameter: 34 – 60 1.3 – 2.4	0.06 0.13	1
734361	2 tension bands	Mast diameter: 60 – 80 2.4 – 3.1	0.07 0.15	1
734362	2 tension bands	Mast diameter: 80 – 100 3.1 – 3.9	0.08 0.18	1
734363	2 tension bands	Mast diameter: 100 – 120 3.9 – 4.7	0.09 0.20	1
734364	2 tension bands	Mast diameter: 120 – 140 4.7 – 5.5	0.11 0.24	1
738546	1 clamp	Mast diameter: 42 – 115 1.7 – 4.5	1.1 2.4	2
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
732327	1 downtilt kit	Downtilt angle: 0° – 19°	1.3 2.9	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:

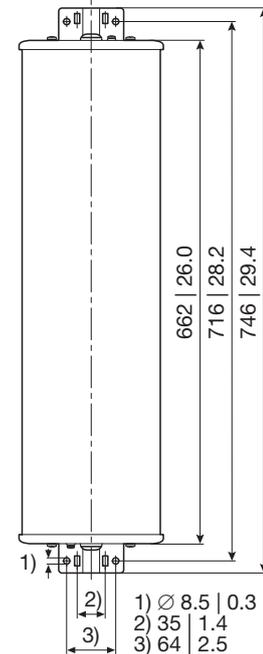
Reflector screen and radiator: Tin-plated copper.

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 colour of the radome is grey.

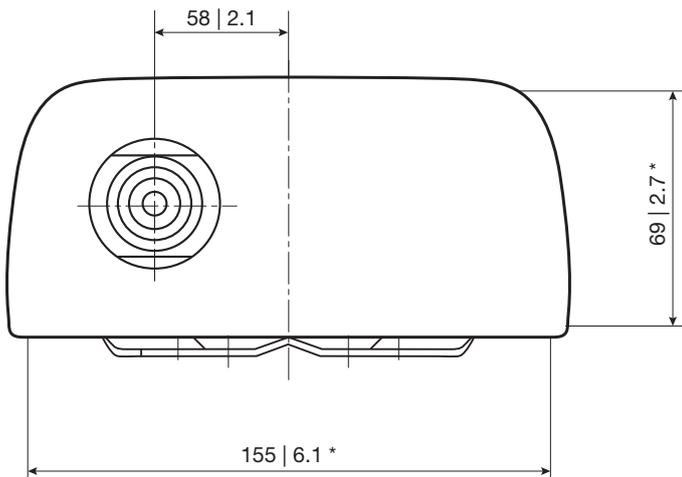
All screws and nuts: Stainless steel.

Grounding:

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



Layout of interface:



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

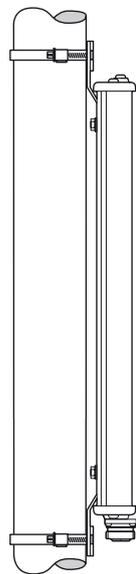
Any previous data sheet issues have now become invalid.

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Mounting Hardware

Tension Bands Included in the Scope of Supply

Suitable for mast diameter	45 – 125 mm
Number of pieces	2 tension bands
Material	Stainless steel
Weight (approx.)	0.08 kg



Please note:
Only usable without downtilt kit!

936.4060 Subject to alteration.