

2-Port Antenna

R1

Y1

KATHREIN

Frequency Range

790–960

1710–2690

Dual Polarization

X

X

HPBW

65°

65°

Fixed Electr. DT

0°

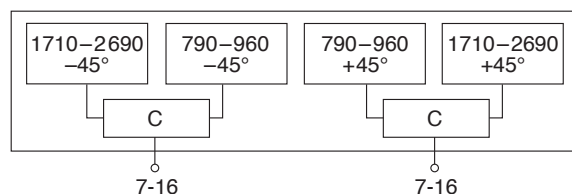
0°

Integrated Combiner

C

2-Port Antenna 790–960/1710–2690 C 65°/65° 8/9dBi

Type No.		80010753						
		R1			Y1			
		790–960			1710–2690			
Frequency range	MHz	790 – 862	824 – 894	880 – 960	1710 – 1990	1920 – 2200	2200 – 2490	2490 – 2690
Polarization	°	+45, –45	+45, –45	+45, –45	+45, –45	+45, –45	+45, –45	+45, –45
Average gain (dBi)	dBi	2 x 7.8	2 x 8.0	2 x 8.5	2 x 7.8	2 x 8.9	2 x 8.7	2 x 8.2
Horizontal Pattern:								
Half-power beam width	°	67			65	55	60	62
Front-to-back ratio	dB	Copolar: > 25	Copolar: > 25	Copolar: > 25	Copolar: > 25	Copolar: > 25	Copolar: > 25	Copolar: > 25
Cross polar ratio								
Main direction	0°	Typically: 15	Typically: 18	Typically: 20	Typically: 25	Typically: 25	Typically: 25	Typically: 25
Sector	±60°	> 8	> 8	> 8	> 10	> 10	> 10	> 10
Vertical Pattern:								
Half-power beam width	°	65			75	60	60	65
Impedance		50						
VSWR		< 1.5						
Isolation: Intrasystem	dB	> 30			> 30		> 27	> 25
Intermodulation IM3	dBc	< –150 dBc (2 x 43 dBm carrier)						
Max. effective power per port	W	200 (at 50 °C ambient temperature)			100 (at 50 °C ambient temperature)			
Max. effective power for the antenna	W	300 (at 50 °C ambient temperature)						



Mechanical specifications		
Input	2 x 7-16 female	
Connector position	Bottom	
Wind load (at Rated Wind Speed: 150 km/h)	N lbf	Frontal: 100 22 Maximal: 110 25
Max. wind velocity	km/h mph	200 124
Height / width / depth	mm inches	334 / 260 / 136 13.1 / 10.2 / 5.4
Category of mounting hardware	L (Light)	
Weight	kg lb	2.8 (tension bands incl.) 6.2 (tension bands incl.)
Packing size	mm inches	495 x 272 x 157 19.5 x 10.7 x 6.2
Scope of Supply	Panel and 1 unit of tension bands for 45–125 mm 1.8–4.9 inches diameter	

Correlation Table

Frequency range	Array	Connector
790– 960 MHz	R1	1–2
1710–2690 MHz	Y1	1–2

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

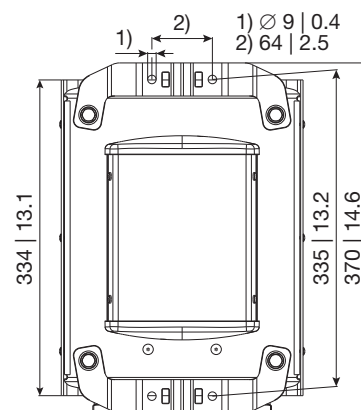
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Accessories General Information

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Accessories (order separately if required)

Type No.	Description	Remarks mm inches	Weight approx. kg lb	Units per antenna
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° – 44°	1.0 2.2	1



All dimensions in mm | inches

Accessories (included in the scope of supply)

734365	2 tension bands	Mast diameter: 45 – 125 1.8 – 4.9	0.08 0.18	1
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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.

Please note: Using a downtilt kit is only possible in combination with clamps 731651, 738546, 85010002 or 85010003

Material:

Reflector screen: Weather-proof aluminum.

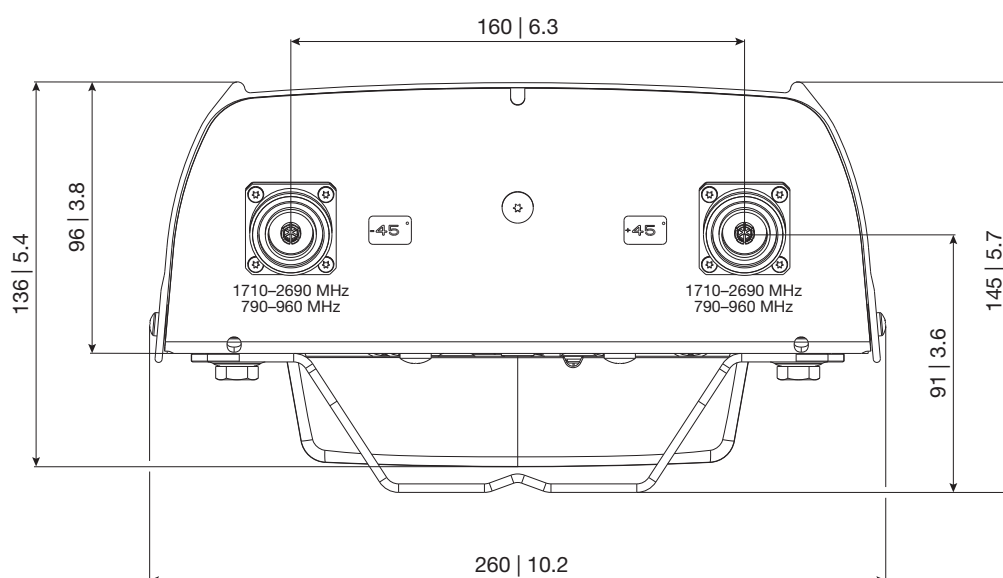
Fiberglass housing: The grey fiberglass radomes of these antennas are very stable and extraordinarily stiff. They are resistant to ultraviolet radiation and can also be painted to match their surroundings.

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.

Layout of interface:



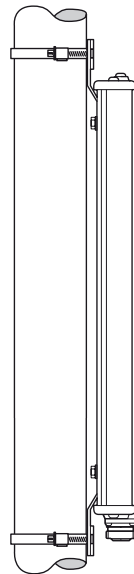
All dimensions in mm | inches

Any previous data sheet issues have now become invalid.

Mounting Hardware Tension Bands Included in the Scope of Supply

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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.