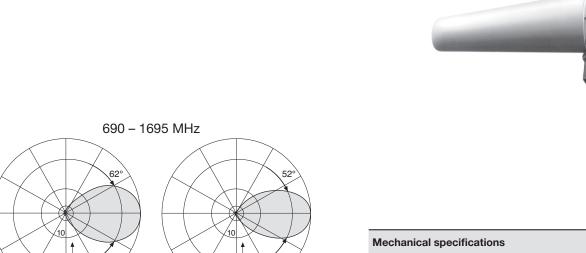
Logarithmic Periodic Vertical Polarization Half-power Beam Width

690-2690 V 67°

KATHREIN

VPol LogPer 690-2690 67° 11dBi

Type No.		742192vo2					
Frequency range	MHz	690 – 880	880 – 960	960 – 1695	1695 – 2200	2200 – 2490	2490 – 2690
VSWR		< 1.6	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Gain	dBi	10.1	10.6	11.0	11.0	11.0	11.0
Impedance	Ω	50	50	50	50	50	50
Polarization		Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Front-to-back ratio	db	> 25	> 25	> 25	> 25	> 22	> 25
Half-power beam width horizontal vertical	0	69 54	64 53	57 50	53 48	47 46	45 44
Intermodulation IM3 (2 x 43 dBm carrier)	dBc	< -150	< -150	< -150	< -150	< -150	< -150
Max. power Total power	W	300	300 50	250 00 (at 50 °C aml	200 pient temperatur	170 re)	150



	62°	52°			
Ö.	Horizontal Pattern	Vertical Pattern			
terati	1695 – 2690 MHz				
936.5038/a Subject to alteration.	Horizontal Pattern	Vertical Pattern			

Mechanical specifications						
Input		1 x 7-16 female				
Connector position		Bottom				
Wind load (at Rated Wind Speed: 150 km/h)	N Ibf	Frontal 20 4 Lateral 210 47 Rearside 30 7				
Max. wind velocity	km/h mph	241 150				
Height / width / depth	mm inches	300 / 155 / 785 11.8 / 6.1 / 30.9				
Weight	kg lb	5.5 12.1				
Packing size	mm inches	360 x 175 x 1000 14.2 x 6.9 x 39.4				

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

742192v02 Page 1 of 2

Material: Radiator: Tin-plated copper. Reflector screen: Weather-proof aluminum.

Radome: Fiberglass, color: Grey. All screws and nuts: Stainless steel

Mounting: The antenna can be mounted on tubular mast with supplied clamps:

Mast diameter mm inches	Wind load km/h mph		
30-70 1.2-2.8	< 200 124		
48-70 1.9-2.8	< 241 150		

Recommended Torque: $M_A = 25 \text{ Nm}$.

Please note: Kathrein does not recommend to use counter nuts.

Grounding: All metal parts of the antenna as well as the inner conductor are

DC grounded.

Environmental tests: Kathrein antennas have passed environmental tests as recommended

in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families use identical modules and materials. Extensive tests have been

performed on typical samples and modules.

Pressure test: The antenna has passed a pressure test according to Official Journal of

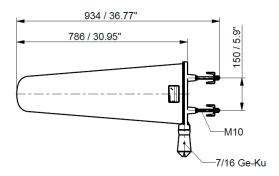
the European Communities L245/171 from 12.09.2002 for the use of the

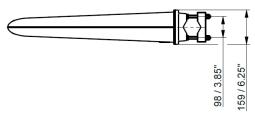
antenna in train tunnels for high speed railways.

During test the antenna was subject to alternating pressure with a number

of 1x106 alternations of load.

The antenna exceeds the standard as follows:
Pressure difference according to L245/171: 10 kPa
Pressure difference during test: 20 kPa





All dimensions in mm / inches