

The Kathrein K752921 broadband dipole antenna is intended for use in professional fixed-station applications in the 380–470 MHz band. It features:

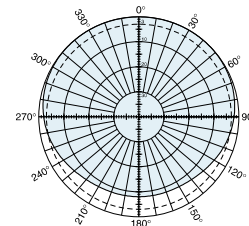
- Special mount and standoff to provide a variety of radiation patterns.
- Very strong and weather resistant design.
- Feedpoint protected by fiberglass radome.
- Elements can be stacked for additional gain.
- Stainless steel hardware throughout.
- Entire antenna at DC ground potential.



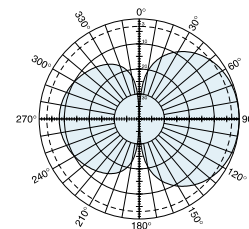
**Specifications:**

Frequency range	380–470 MHz	
Gain	4 dBi	
Impedance	50 ohms	
VSWR	400–470 MHz	<1.5:1
	380–470 MHz	<1.5:1 A= $\frac{1}{4} \lambda$
	380–470 MHz	<2.0:1 A>> $\frac{1}{4} \lambda$
Polarization	Vertical	
Front-to-back ratio	7.7 dB	$\frac{1}{4} \lambda$ spacing on 2.375 inch (60 mm) OD mast
Maximum input power	450 watts (at 50°C)	
H-plane beamwidth	202 degrees (half-power, $\frac{1}{4} \lambda$ spacing)	
E-plane beamwidth	80 degrees (half-power, $\frac{1}{4} \lambda$ spacing)	
Connector	N female	
Weight	3.5 lb (1.6 kg)	
Dimensions	23.9 x 12.4 x 3.4 inches (607 x 315 x 86 mm)	
Wind load	at 93 mph (150kph) 9 lbf / (40 N)	
Wind survival rating*	120 mph (200 kph)	
Shipping dimensions	34.6 x 13 x 3.9 inches (880 x 330 x 100 mm)	
Shipping weight	7 lb (3.2 kg)	
Mounting	For masts of 2.375 to 12.625 inches (60 to 320 mm) OD.	

*See reverse for order information.*



H-plane  
Horizontal pattern – V-polarization  
 $\frac{1}{4} \lambda$  spacing  
2.375 inch (60 mm) OD mast



E-plane  
Vertical pattern – V-polarization  
 $\frac{1}{4} \lambda$  spacing  
2.375 inch (60 mm) OD mast

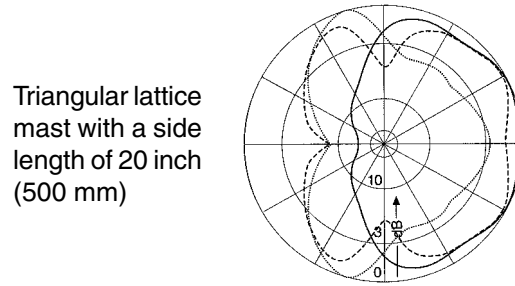
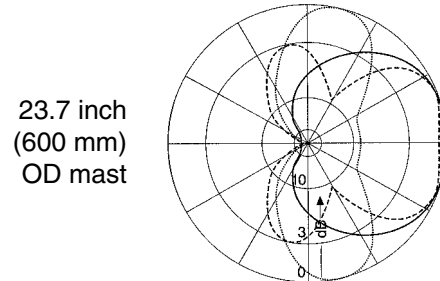
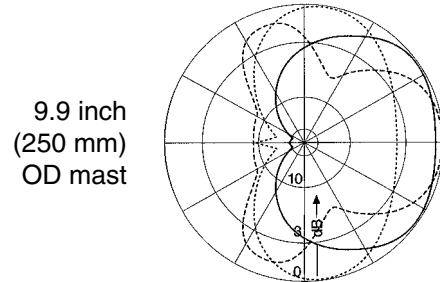
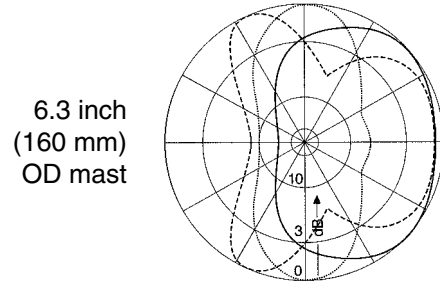
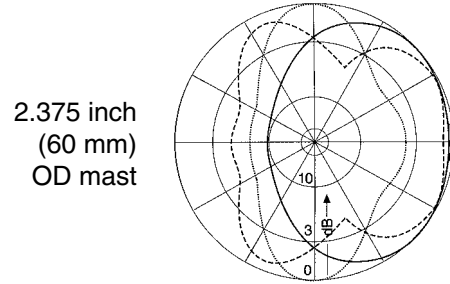
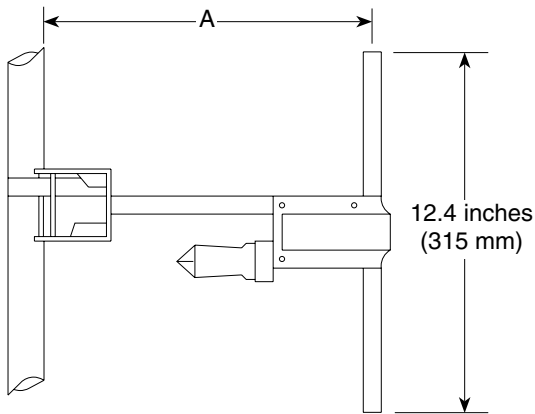
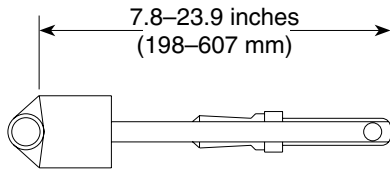
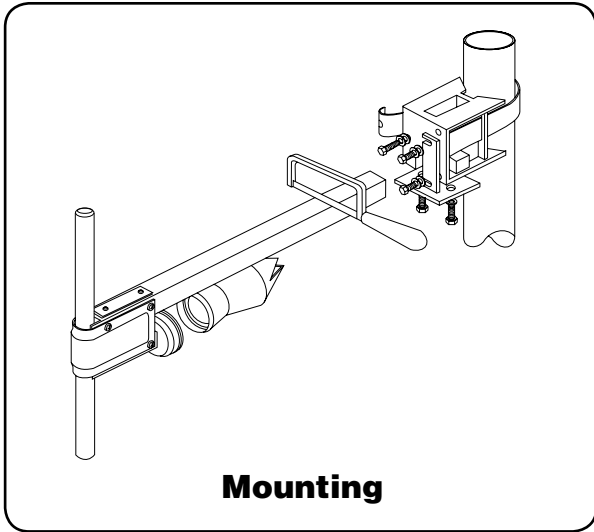
\* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



10241-D  
936.072/d



**Horizontal radiation pattern**



A=0.25 λ

A=0.5 λ

A=0.75 λ

**Order Information:**

Model	Description
K752921	380–470 MHz Dipole antenna

All specifications are subject to change without notice. The latest specifications are available at [www.kathrein-scala.com](http://www.kathrein-scala.com).