

Kathrein wideband X-polarized antennas are designed for use in PCS and 3G/UMTS polarization diversity systems.

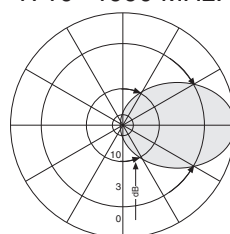
- X-polarized (+45° and -45°).
- UV resistant pulltruded radomes.
- Wideband vector dipole technology.
- DC Grounded metallic parts for impulse suppression.

General specifications:

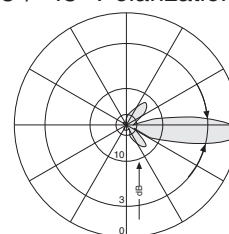
Frequency range	1710–2690 MHz
VSWR	<1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Connector	2 x 7-16 DIN female
Isolation, between ports	>28 dB
Maximum input power	150 watts (at 50°C) per input
Weight	4 lb (1.8 kg)
Dimensions	10.9 x 6.1 x 2.7 inches (278 x 154 x 69 mm)
Wind load	at 93 mph (150kph)
Front/Side/Rear	17 lbf / 4 lbf / 17 lbf (75 N) / (17 N) / (75 N)
Mounting category	L (Light)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	14.8 x 6.8 x 3.6 inches (375 x 172 x 62 mm)
Shipping weight	4.2 lb (1.9 kg)
Mounting	Fixed mounts for 1.8 to 4.9 inch (45 to 125 mm) OD masts are included and tilt options are available.

See reverse for order information.

1710–1990 MHz: +45°/–45° Polarization

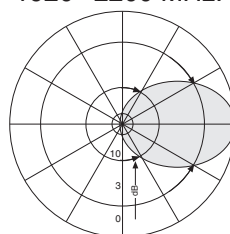


Horizontal Pattern

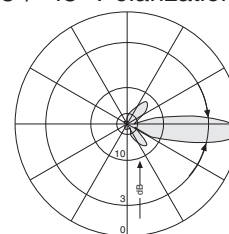


Vertical Pattern
3° electrical downtilt

1920–2200 MHz: +45°/–45° Polarization

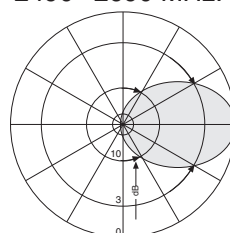


Horizontal Pattern

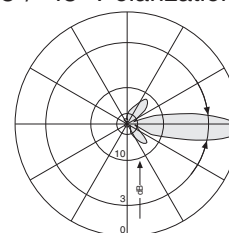


Vertical Pattern
3° electrical downtilt

2490–2690 MHz: +45°/–45° Polarization



Horizontal Pattern

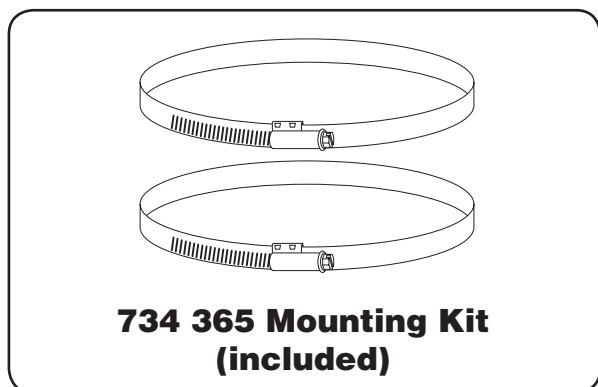


Vertical Pattern
4° electrical downtilt



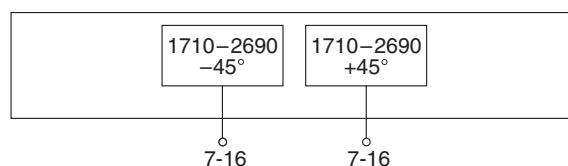
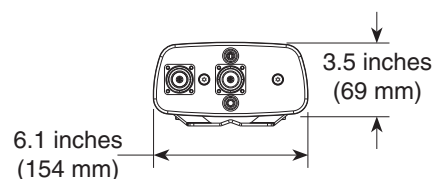
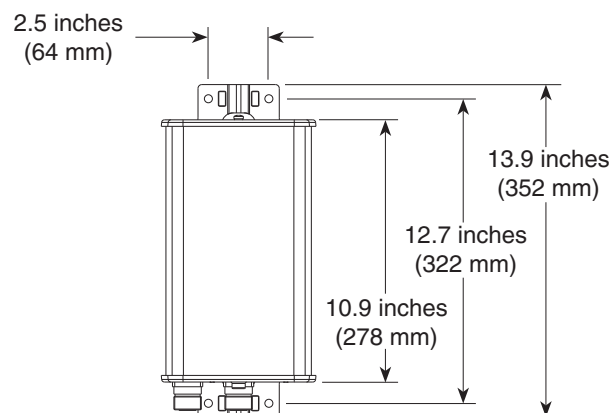
Specifications:	1710–1990 MHz	1920–2200 MHz	2200–2490 MHz	2490–2690 MHz
Gain	11 dBi	11.5 dBi	12.2 dBi	12.7 dBi
+45° and -45° polarization horizontal beamwidth	67° (half-power)	65° (half-power)	60° (half-power)	58° (half-power)
+45° and -45° polarization vertical beamwidth	36° (half-power)	31° (half-power)	25° (half-power)	25° (half-power)
Electrical downtilt	3 degrees	3 degrees	4 degrees	4 degrees
Front-to-back ratio (180°±30°)	>30 dB	>28 dB	>28 dB	>27 dB
Cross polar ratio				
Main direction 0°	>20 dB (typical)	>20 dB (typical)	>20 dB (typical)	>20 dB (typical)
Sector ±60°	>8 dB	>8 dB	>8 dB	>8 dB

* 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.



Mounting Options:

Model	Description
734 365 (included)	Mounting Kit for 1.8 to 4.9 inch (45 to 125 mm) OD mast.
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast. 4.4 lb (2 kg)
850 10013	Tilt Mount Kit (requires 2 x 738 546) 0–36 degrees downtilt angle. 7.4 lb (3.7 kg) (for use with 2 x 738 546 only)



Order Information:

Model	Description
800 10761	Antenna with 2 x 7-16 DIN connectors

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com