

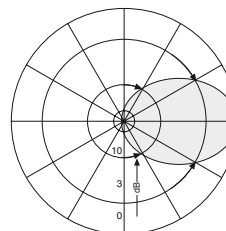
Kathrein wideband X-polarized antennas are designed for use in PCS, WCS, Wi-Fi, and WiMAX polarization diversity systems.

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

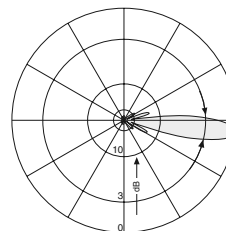
General specifications:

Frequency range	1710–2690 MHz
VSWR	<1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Connector	4 x 7-16 DIN female
Electrical downtilt	0°–12° (continuously adjustable) (manual or remote control)
Isolation, between ports	>30 dB
Maximum input power	300 watts (at 50°C) per input
Weight	24.3 lb (11 kg)
Dimensions	28.5 x 12.7 x 2.8 inches (724 x 323 x 71 mm)
Wind load	at 93 mph (150kph)
Front/Side/Rear	72 lbf / 14 lbf / 72 lbf (320 N) / (60 N) / (320 N)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	39.4 x 14.2 x 5.1 inches (1000 x 360 x 130 mm)
Shipping weight	27.6 lb (12.5 kg)
Mounting	Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts.

See reverse for order information.



Horizontal pattern
±45°- polarization

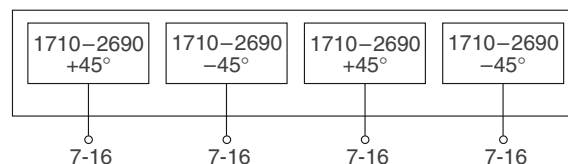


Vertical pattern
±45°- polarization
0°–12° electrical downtilt

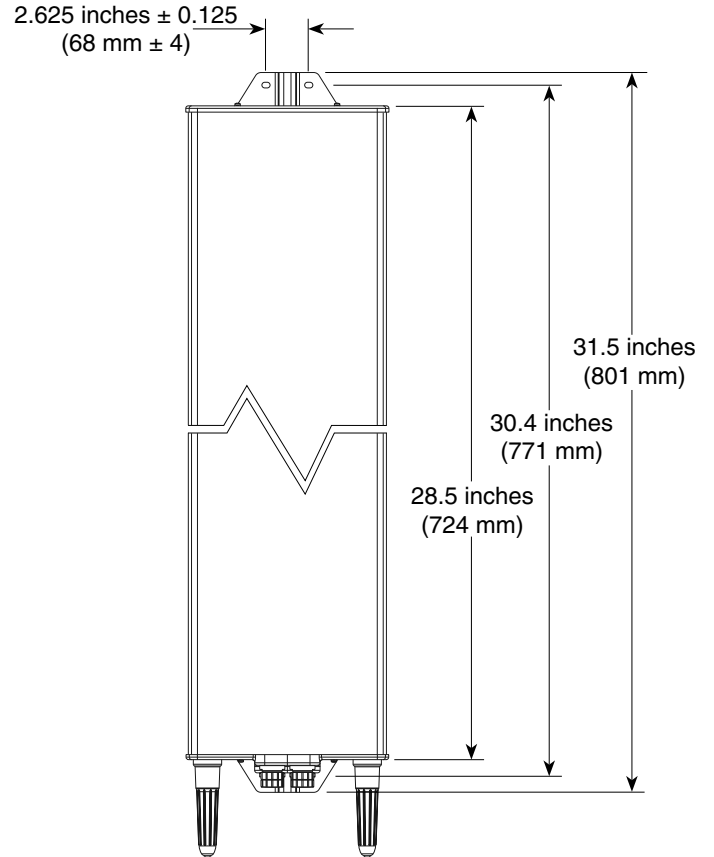
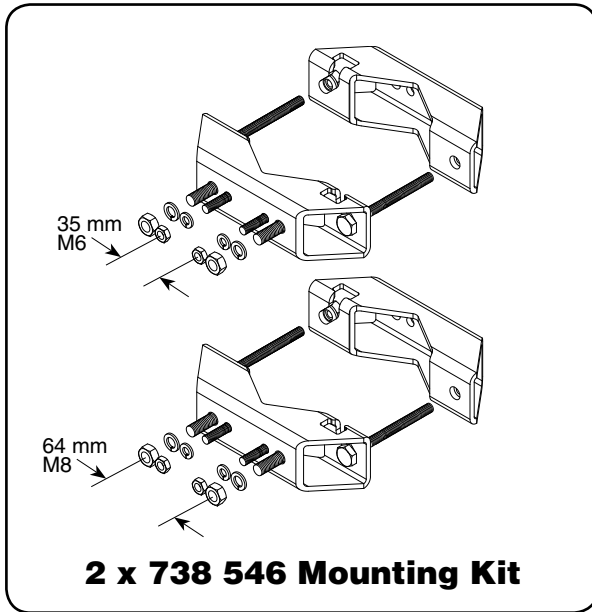


Specifications:	1710–1990 MHz	1920–2200 MHz	2200–2490 MHz	2490–2690 MHz
Gain	15 dBi	15.5 dBi	16 dBi	16 dBi
+45° and -45° polarization horizontal beamwidth	67° (half-power)	63° (half-power)	60° (half-power)	60° (half-power)
+45° and -45° polarization vertical beamwidth	14° (half-power)	13° (half-power)	12° (half-power)	11° (half-power)
Front-to-back ratio (180°±30°)	>28 dB	>28 dB	>25 dB	>25 dB
Sidelobe suppression for:	0° 6° 12° T	0° 6° 12° T	0° 6° 12° T	0° 6° 12° T
First sidelobe above main beam	≥14 15 16 dB	≥14 15 16 dB	≥14 15 16 dB	≥14 15 16 dB
Cross polar ratio	0° 25 dB (typical)	25 dB (typical)	25 dB (typical)	25 dB (typical)
Sector	±60° >10 dB	>10 dB	>9 dB	>10 dB

* Mechanical design is based on environmental conditions as stipulated in EIA-222-G (April 2007) 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.

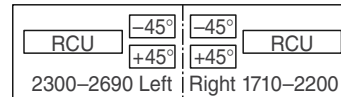
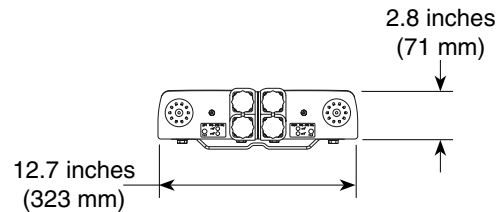


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936.A2656/c



Mounting Options:

Model	Description
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.
850 10013	Tilt Mount Kit 0–25 degrees downtilt angle.



Layout of interface

Order Information:

Model	Description
800 10681	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