

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.

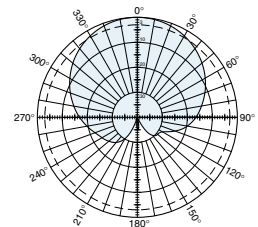
General specifications:

Frequency range	1710–2200 MHz
VSWR	<1.4:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: < -150 dBc
Polarization	+45° and -45°
Connector	2 x 7-16 DIN female
Electrical downtilt	2 degrees
Isolation	>30 dB
Maximum input power	300 watts (at 50°C) per input
Weight	14.6 lb (6.6 kg)
Dimensions	51.3 x 6.1 x 2.7 inches (1302 x 155 x 69 mm)
Equivalent flat plate area	3.94 ft ² (0.366 m ²)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	55.3 x 6.8 x 3.7 inches (1404 x 172 x 95 mm)
Shipping weight	17.2 lb (7.8 kg)
Mounting	Fixed and tilt mount options are available for Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.

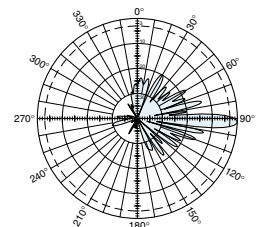
See reverse for order information.

Specifications:	1710–1880 MHz	1850–1990 MHz	1920–2200 MHz
Gain	17.9 dBi	18.1 dBi	18.3 dBi
+45° and -45° polarization horizontal beamwidth	66° (half-power)	65° (half-power)	63° (half-power)
+45° and -45° polarization vertical beamwidth	6.6° (half-power)	6.2° (half-power)	5.8° (half-power)
Front-to-back ratio	>28 dB (co-polar)	>30 dB (co-polar)	>33 dB (co-polar)
Sidelobe suppression for first sidelobe above main beam	>14 dB	>15 dB	>15 dB
First null-fill below main beam	25 dB (typical)	25 dB (typical)	25 dB (typical)
Cross polar ratio			
Main direction	0°	20 dB (typical)	20 dB (typical)
Sector	±60°	>10 dB	>10 dB

* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) 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.



Horizontal pattern
±45°- polarization

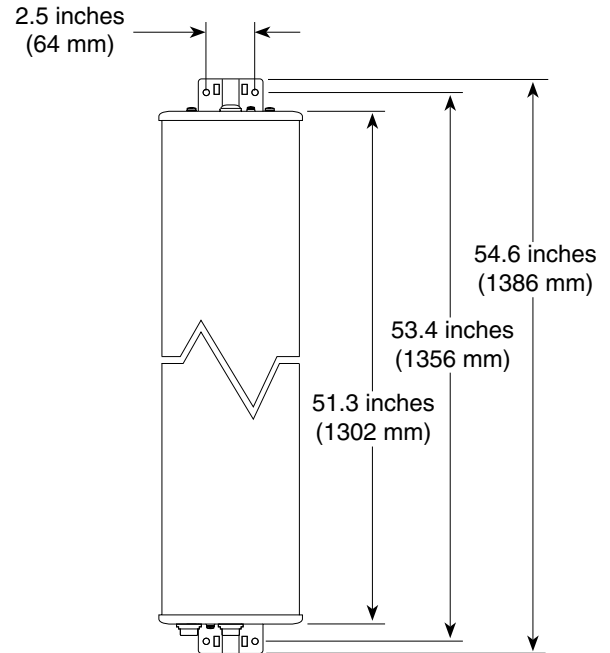
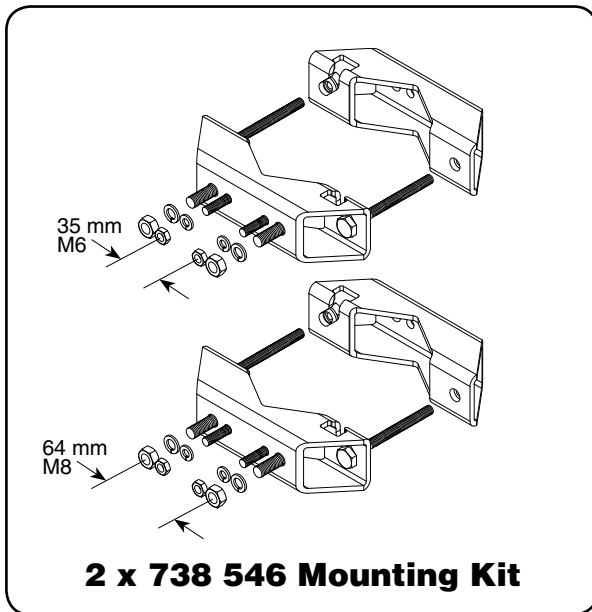


Vertical pattern
±45°- polarization
2° electrical downtilt



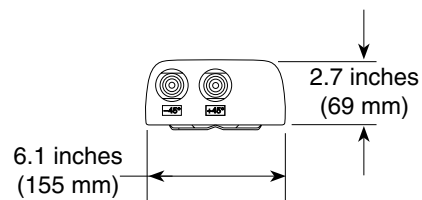
11002-B
936.2957/b



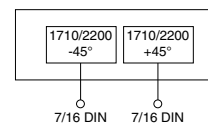


Mounting Options:

Model	Description
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.
742 263	Three-panel Sector Mounting Kit (120 deg. ea.) for 3.5 inch (89 mm) OD mast.
850 10013	Locking Tilt Mount Kit 0–16 degrees downtilt angle.



Profile PF5



Order Information:

Model	Description
800 10426	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