

Kathrein panels are antenna products for wireless communications.

All ADT panels feature:

- Heavy-duty construction using the highest quality materials: UV resistant pulltruded fiberglass radomes, stainless steel fasteners and hardware, rigid aluminum reflectors, and low loss coaxial cable power divider harness, all contributing to long, trouble free service life.
- Superior electrical specifications including low VSWR, wide bandwidth, flat frequency response, and superb intermodulation performance.
- Precision continuously adjustable electrical downtilt controls, manual control as standard equipment, with remote control available as an option.
- Will accomodate future 3G / UMTS applications.

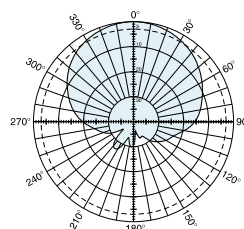
General specifications:

| | |
|--|--|
| Frequency range | 1710–2170 MHz |
| Impedance | 50 ohms |
| VSWR | < 1.5:1 |
| Intermodulation (2x20w) | IM3: <-150 dBc |
| Polarization | +45° and -45° |
| Front-to-back ratio | >25 dB (co-polar) >25 dB (total power) |
| Maximum input power | 300 watts per input (at 50°C) |
| Electrical downtilt continuously adjustable | 0–8 degrees (manual or optional remote control) |
| Connector | 4 x 7/16 DIN female |
| Isolation | >30 dB |
| Cross polar ratio | |
| Main direction 0° | 25 dB (typical) |
| Sector ±60° | >10 dB |
| Weight | 34.2 lb (15.5 kg) |
| Dimensions | 51.3 x 11.8 x 2.7 inches (1304 x 299 x 69 mm) |
| Equivalent flat plate area | 5.48 ft² (0.509 m²) |
| Wind survival rating* | 120 mph (200 kph) |
| Shipping dimensions | 62.6 x 12.7 x 4.3 inches (1589 x 322 x 108 mm) |
| Shipping weight | 37.5 lb (17 kg) |
| Mounting | Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts. |

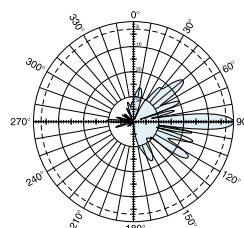
See reverse for order information.

| Specifications: | 1710–1880 MHz | 1850–1990 MHz | 1920–2170 MHz |
|---|---------------------------------|---------------------------------|---------------------------------|
| Gain | 17.5 dBi | 17.7 dBi | 17.8 dBi |
| +45° and -45° polarization horizontal beamwidth | 66° (half-power) | 65° (half-power) | 64° (half-power) |
| +45° and -45° polarization vertical beamwidth | 7° (half-power) | 6.7° (half-power) | 6.5° (half-power) |
| Sidelobe suppression for first sidelobe above main beam | 0° 2° 5° 8° T 17 17 15 15 dB | 0° 2° 5° 8° T 20 20 18 18 dB | 0° 2° 5° 8° T 20 20 18 16 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.

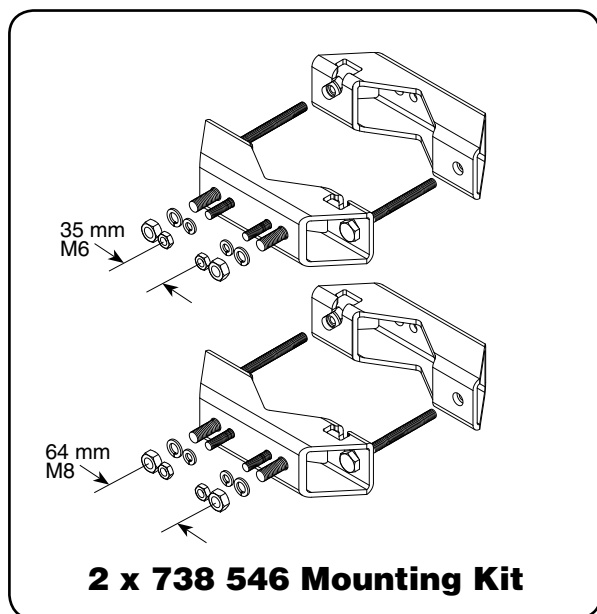


Horizontal pattern
±45°- polarization



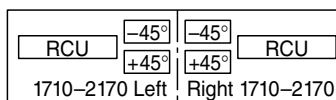
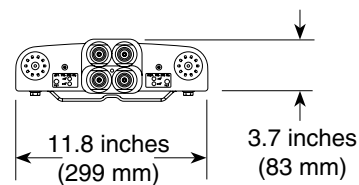
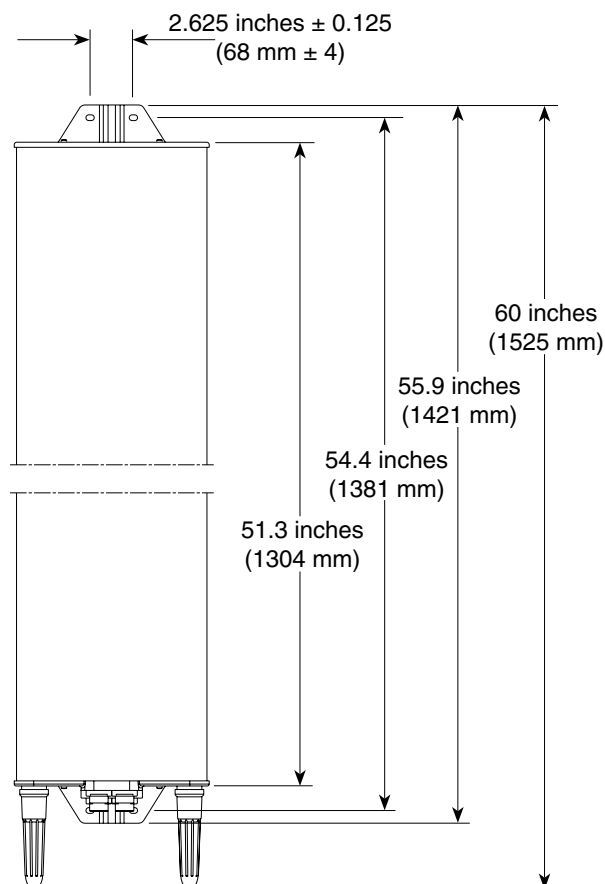
Vertical pattern
±45°- polarization





Mounting Options:

| Model | Description |
|-------------|--|
| 2 x 738 546 | Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast. |
| 737 978 | Tilt Mount Kit 0–16 degrees downtilt angle. |



Layout of interface

Order Information:

| Model | Description |
|---------|---|
| 742 234 | Antenna with 7/16 DIN connectors 0°–8° adjustable electrical downtilt |

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

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