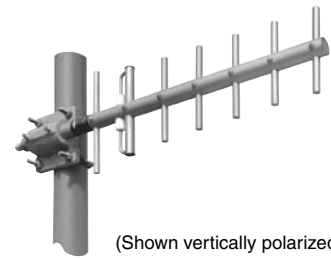


The Kathrein-Scala TY series are rugged broadband yagi antennas fabricated of 6061/T6 aluminum rod and seamless drawn pipe, anodized for maximum reliability and corrosion resistance. The hardware and fastenings are stainless steel. The internal balun, coax feed and connector are sealed in a foam potting system to prevent moisture penetration and assure long service life in severe environmental conditions. The heavy aluminum mounting casting allows installation for V or H polarization.

- The TY-840 is specifically designed for trunking and other fixed-station applications in the 806–869 MHz band.



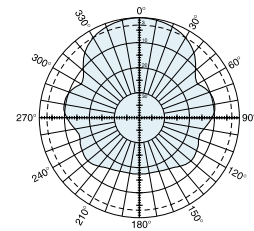
(Shown vertically polarized)

Specifications:

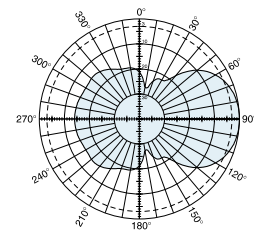
| | |
|-----------------------|--|
| Frequency range | 806–869 MHz |
| Gain | 12 dBi |
| Impedance | 50 ohms |
| VSWR | < 1.5:1 maximum (1.35:1 typical) |
| Polarization | Horizontal or vertical |
| Front-to-back ratio | >18 dB |
| Maximum input power | 100 watts (at 50°C) |
| H-plane beamwidth | 59 degrees (half-power) |
| E-plane beamwidth | 48 degrees (half-power) |
| Connector | N female |
| Weight | 2.9 lb (1.3 kg) |
| Dimensions | 24.5 x 8.375 inches (622 x 213 mm) |
| Wind load | at 93 mph (150kph) |
| Front/Side | 3 lbf / 4 lbf (11 N) / (17 N) |
| Wind survival rating* | 120 mph (200 kph) |
| Shipping dimensions | 28 x 10 x 4.5 inches (710 x 254 x 114 mm) |
| Shipping weight | 5.0 lb (2.3 kg) |
| Mounting | For masts of 1.25 to 2.375 inch (32 to 60 mm) OD. |

See reverse for order information.

* 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.



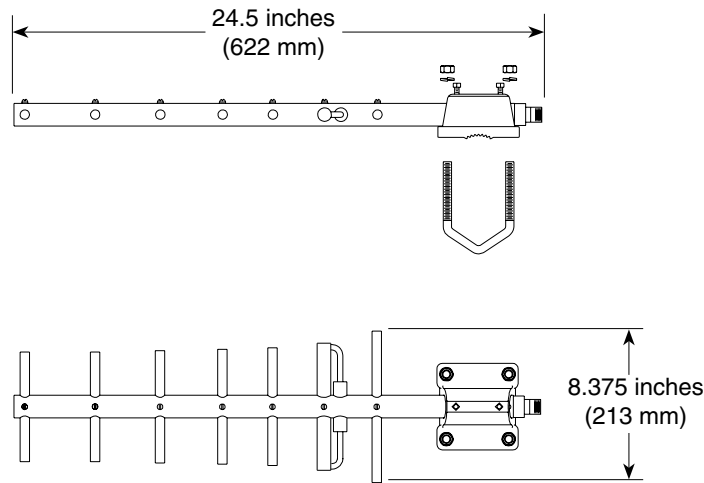
H-plane
Horizontal pattern – V-polarization
Vertical pattern – H-polarization



E-plane
Horizontal pattern – H-polarization
Vertical pattern – V-polarization



10060-E



Order Information:

| Model | Description |
|--------|-------------------------------|
| TY-840 | Yagi antenna with N connector |

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