

	Antenna 1	Antenna 2	Antenna 3	Antenna 4	Antenna 5	Antenna 6
Dual Band (MHz)	698–894	1710–2170	698–894	1710–2170	698–894	1710–2170
Dual Polarization	X	X	X	X	X	X
HPBW	65°	65°	65°	65°	65°	65°

General specifications:

Frequency range	698–894 MHz 1710–2170 MHz
VSWR	<1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° upper and lower band -45° upper and lower band
Connector	12 x 7-16 DIN female
Isolation intrasystem	>30 dB
intersystem	>40 dB (698–894 // 1710–2170 MHz)
Radome color	Brown or grey
Weight	50 lb (22.7 kg)
Height	24 inches (609 mm)
Radome diameter	16 inches (407 mm)
Wind load	at 93 mph (150kph)
Side	32 lbf (138 N)
Wind survival rating*	100 mph (160 kph)
Shipping dimensions	32 x 20 x 19 inches (813 x 508 x 483 mm)
Shipping weight	52 lb (23.6 kg)
Mounting	Designed to be mounted on top of a utility pole using a custom mounting bracket supplied by the customer.

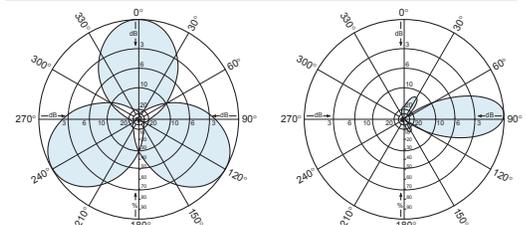
See reverse for order information.

GPS specifications:

Frequency range	1575.42 ± 10 MHz
Gain	4 dBic
Polarization	Righthand circular
H-plane beamwidth	Omni
E-plane beamwidth	105 degrees (half-power)
Connector	N female
DC power	+5 Vdc, 20 mA through N output connector
Temperature range	-35° C to +70° C



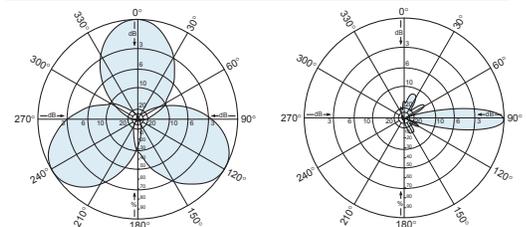
698–894 MHz



Horizontal pattern
±45°-polarization

Vertical pattern
±45°-polarization

1710–2170 MHz



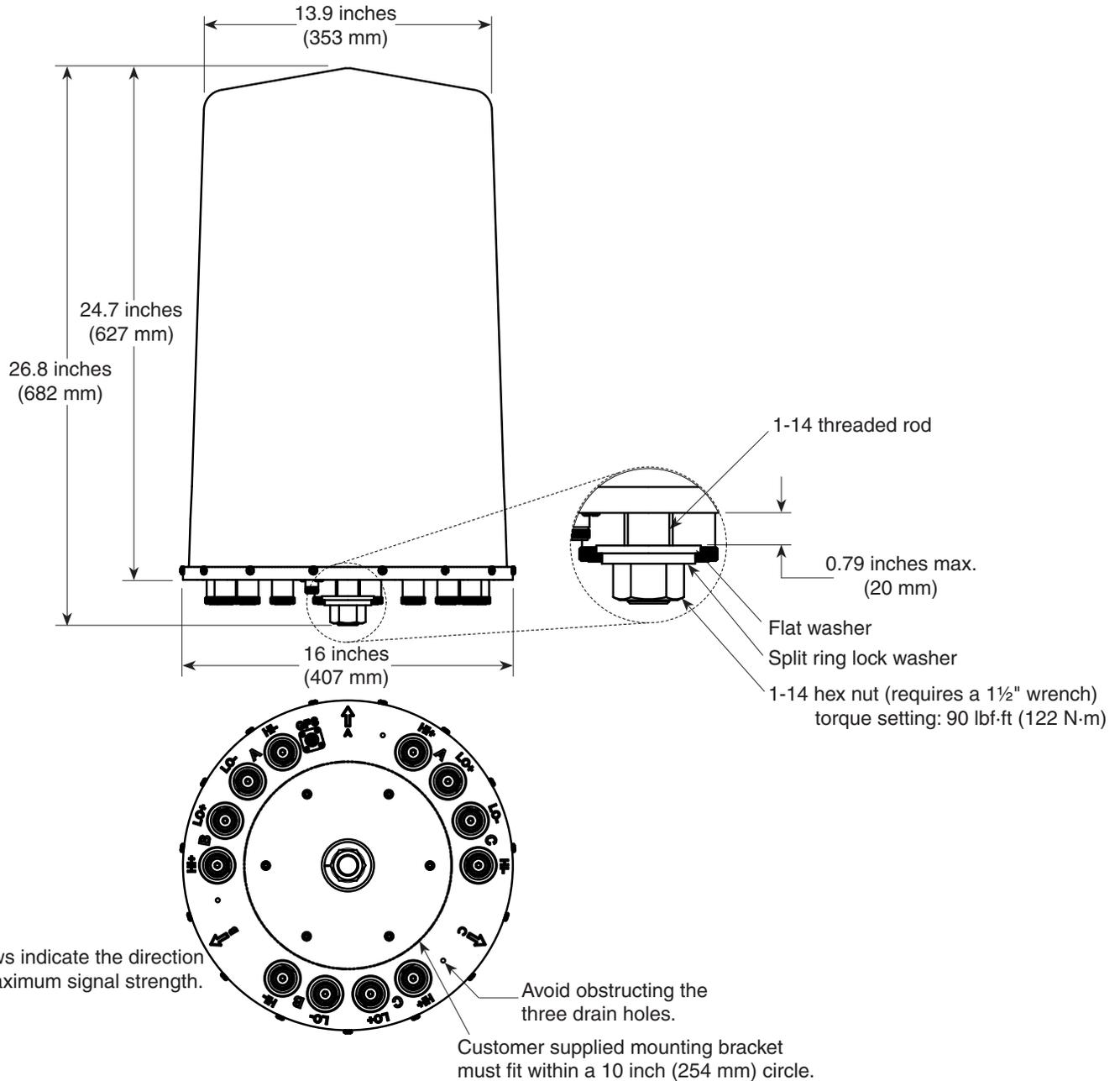
Horizontal pattern
±45°-polarization

Vertical pattern
±45°-polarization

Specifications:	698–806 MHz	806–894 MHz	1710–1880 MHz	1850–1990 MHz	1920–2170 MHz
Gain	10.4 dBi	11.6 dBi	13.5 dBi	13.5 dBi	13.2 dBi
Front-to-back ratio (180° ± 30°)	>24 dB (co-polar) >18 dB (total power)	>26 dB (co-polar) >20 dB (total power)	>32 dB (co-polar) >24 dB (total power)	>30 dB (co-polar) >26 dB (total power)	>30 dB (co-polar) >25 dB (total power)
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)
+45° and -45° polarization horizontal beamwidth	71° (half-power)	65° (half-power)	60° (half-power)	62° (half-power)	64° (half-power)
+45° and -45° polarization vertical beamwidth	37° (half-power)	31° (half-power)	19° (half-power)	17.5° (half-power)	17.5° (half-power)
Cross polar ratio					
Main direction 0°	18 dB	25 dB	20 dB	22 dB	25 dB
Sector (typical) ±60°	>8 dB	>8 dB	>9 dB	>9 dB	>12 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.



Order Information:

Model	Description
840 10515	Brown Dualband 700 MHz X-pol Trisector Antenna
840 10516	Grey Dualband 700 MHz X-pol Trisector Antenna

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