

90° Dual Band Panel Antenna with Integrated Combiner

- Wide band operation.
- Exceptional intermodulation characteristics.
- Various gain, beamwidth and downtilt ranges.
- High strength pultruded fiberglass radome.
- Integrated combiner reduces RF feedline requirements from 2 to 1

General specifications:

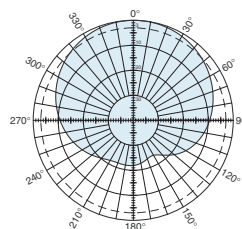
Frequency range	824–960 MHz 1710–2170 MHz
VSWR	
824–960 MHz	<1.7:1
870–960 MHz	<1.5:1
1710–2170 MHz	<1.7:1
1710–1990 MHz	<1.5:1
Gain	7 dBi
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	Vertical / Vertical
Front-to-back ratio	
824–960 MHz	>18 dB
1710–2170 MHz	>20 dB
Maximum input power	100 watts (at 50°C)
H-plane beamwidth	
824–960 MHz	90 degrees (half-power)
1710–2170 MHz	82 degrees (half-power)
E-plane beamwidth	
824–960 MHz	60 degrees (half-power)
1710–2170 MHz	70 degrees (half-power)
Connector	1 x 7-16 DIN female
Weight	6.2 lb (2.8 kg)
Dimensions	12.9 x 6.1 x 2.7 inches (328 x 155 x 69 mm)
Wind load	at 93 mph (150kph)
Front/Side/Rear	21 lbf / 6 lbf / 23 lbf (90 N / 23 N / 100 N)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	17.5 x 6.8 x 3.6 inches (444 x 172 x 92 mm)
Shipping weight	7.7 lb (3.5 kg)
Mounting	Fixed and tilt mount options are available for 1.3 to 5.5 inch (34 to 140 mm) OD masts.

See reverse for order information.

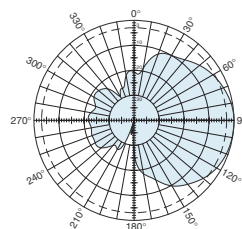
* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



824–960 MHz

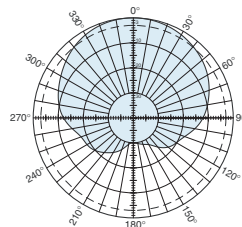


H-plane
Horizontal pattern
Vertical - polarization

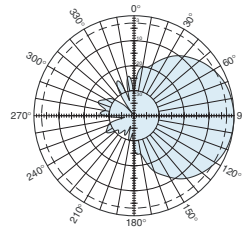


E-plane
Vertical pattern
Vertical - polarization

1710–2170 MHz



H-plane
Horizontal pattern
Vertical - polarization

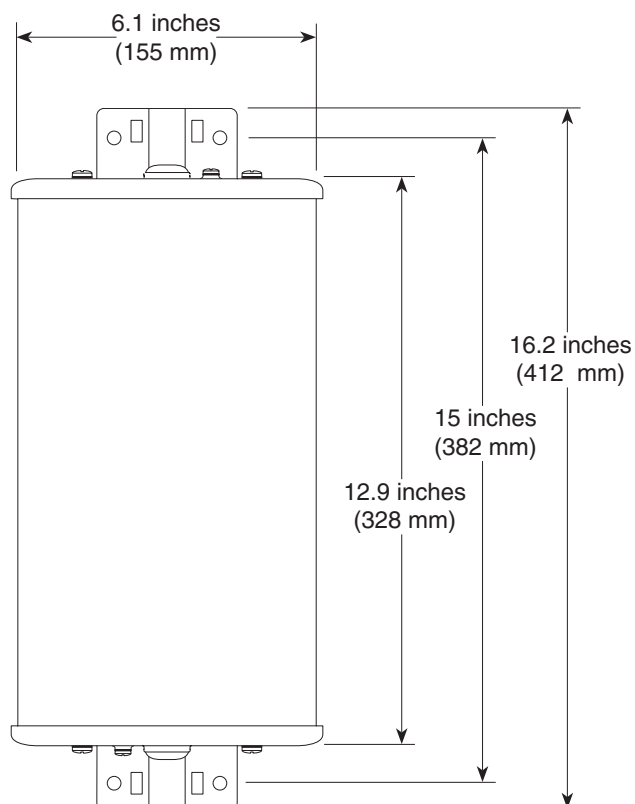
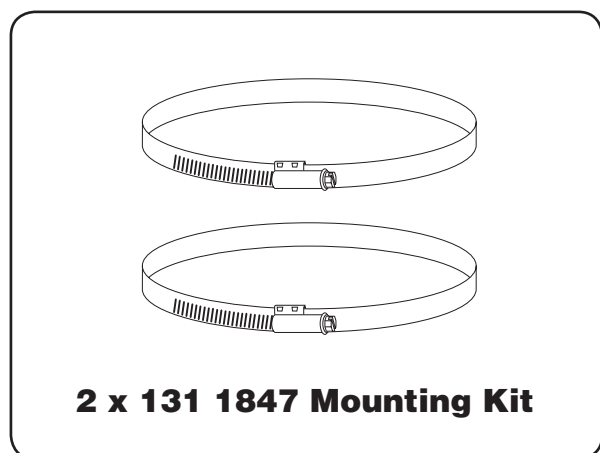


E-plane
Vertical pattern
Vertical - polarization



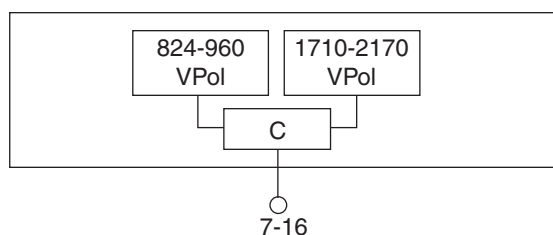
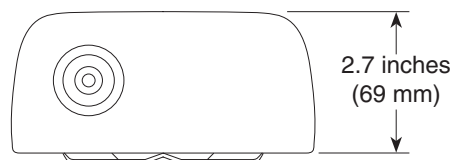
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Mounting Options:

Model	Description
2 x 131 1847	Mounting Kit for 2 to 5.7 inch (50 to 145 mm) OD mast.
742 263	Three-panel Sector Mounting Kit (120 deg. ea.) for 3.5 inch (89 mm) OD mast.
732 327	Tilt Kit for use with the above mounting kits, 0–40 degrees downtilt angle.



Order Information:

Model	Description
742 290	Antenna with 7/16 DIN connector

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