

Product Specifications

MOBILE MARK®
COMMUNICATIONS ANTENNAS



OD Series



SCR Series

5 GHz Antennas (Pat.Pend.)

Omni & Directional Site

- 14 dBi Corner Reflector for point to point applications
- 9 dBi Omni for multipoint applications
- Models available for 5.15 - 5.83 GHz
- Versatile mounting hardware included for pole or surface mounting

Mobile Mark's high frequency antennas are designed for new microwave systems, including U-NII wireless networking applications. These advanced designs accommodate the high-speed wideband performance that the new services will provide.

The directional corner reflectors use a half-wavelength element configuration. A unique balun fed design provides high efficiency radiation without skewing the radiation pattern. The result is excellent bandwidth, gain

and match over the frequency range. One model covers both of the lower bands (5.15 - 5.35 GHz) and another covers the upper band. Each reflector panel is only 3" x 3". The antenna element is protected in an ABS radome, the panels are irridited for all-weather protection. The female N connector exits at the back of the corner. The mounting hardware provided allows for pole or surface mount, U-bolts are included.

The omni antennas use an array of uniquely phased elements stacked vertically. This compresses the antennas beamwidth for vertical gain, while maintaining a uniform omni pattern in the azimuth. The unique phasing maintains excellent frequency response. The array is protected in a black ABS radome. The entire assembly is only 18 inches long, with the radome diameter only 1". Windloading on this antenna is negligible. An offset mounting plate is provided with U- bolts allowing pole, ceiling or surface/offset mounting. The antenna terminates with a female N connector for maximum reliability.

Model Numbers

Model	Description	Frequency
SCR14-5150	14 dBi Corner Reflector	5.15-5.35 GHz
SCR14-5725	14 dBi Corner Reflector	5.72-5.83 GHz
OD9-5250	9 dBi Omnidirectional	5.15-5.35 GHz
OD9-5725	9 dBi Omnidirectional	5.72-5.83 GHz

Special configurations are available upon request. Please consult factory for more information.

Specifications

Frequency:	See above	SCR Series Material:	Irridited aluminum, ABS plastic radome material
Gain:	See above	OD Series Material:	ABS Black radome, with irridited aluminum feed
Bandwidth @2:1 SWR:	200 MHz or better	Weight:	<1 lbs, all models
Impedance:	50 Ohm nominal	Mounting:	Pole or surface mount, hardware included.
Maximum Power:	100 Watts	Mounting Dimension:	Mounts up to 2" outside diameter mast
OD Series Beamwidth:	14° vertical, 360° horizontal	SCR Series Connector:	N female attached at rear of antenna
SCR Series Beamwidth:	30° vertical, 60° horizontal	OD Series Connector:	N female
Front-to-Back ratio:	30 dB for SCR Series		
Lightning Protection:	External protection recommended		
SCR Series Aperture:	3" x 5.5" front face		
SCR Panel Size:	3" x 3" each		
OD Series Size:	18" length x 1" diameter		
Max Wind Velocity:	100 mph, all models		

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Visit our web page at www.mobilemark.com. Specifications subject to change without notice (09/99).