



Antennas

DATA SHEET

BRS Quasi-Omni Antenna

SCA-OM-360Fx-Q-H2



- Sub two foot (0.5 m), two port, quasi-omni antenna with uniform horizontal beamwidths covering the BRS band from 2496-2690 MHz
- 360° of coverage area across all bands of operation in a single 20.9" x 4.0" compact radome
- One pair of cross-polarized ports for 2x2 MIMO covering the full operating frequency range
- Fixed elevation downtilts of either 7, 12 or 14 degrees
- Small size and center mount post make it ideal for mounting on utility, lighting and traffic poles
- Sharp elevation beamwidth aids in network planning
- Simple single housing blends easily into urban environments
- Excellent PIM performance

Overview

CCI's BRS quasi-omni Small Cell antenna provides full BRS band coverage. This sub two foot (0.5 m) compact antenna provides 360° of coverage area in a single canister radome. The unique design of the CCI antenna elements provides for extremely stable azimuth patterns over the full operating frequency range insuring consistent coverage area for all bands of operation. The BRS Quasi-Omni antenna is an ideal choice for Microcell, Small Cell and Mini-Macro applications in urban and suburban environments where antenna size and count are restricted. The antenna mounting bracket places it over the top of utility, lighting and traffic poles .

CCI antennas are designed and produced to ISO 9001 certification standards for reliability and quality in our state-of-the-art manufacturing facilities.

Applications

- Microcell, Small Cells Cell and Mini-Macro application in Urban, Suburban and other visually sensitive environments
- Outdoor Distributed Antenna Systems (ODAS), neutral host in venues, campuses and other outdoor coverage applications



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SPECIFICATIONS

BRS Quasi-Omni Antenna

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Electrical

	Ports	2 x Ports which cover 2496-2690 MHz	
Electrical Downtilt*	7°	12°	14°
Suppression at Horizon	3.0 dB	9.0 dB	16.0 dB
Gain	8.8 dBi	8.7 dBi	8.8 dBi
Azimuth Ripple	3.0 dB	3.0 dB	3.0 dB
Elevation Beamwidth (-3dB)	13.7°	14.0°	14.1°
Elevation Sidelobes (1st Upper)	< -16.0 dB	< -16.0 dB	< -16.0 dB
Elevation Grating Lobe	< -15.0 dB	< -15.0 dB	< -15.0 dB
Cross-Polar Port-to-Port Isolation	> 30 dB	> 30 dB	> 30 dB
Voltage Standing Wave Ratio(VSWR)	< 1.4:1	< 1.4:1	< 1.4:1
Passive Intermodulation (2x20W)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc
Input Power Continuous Wave (CW)	200 watts	200 watts	200 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground

* Fixed Electrical Downtilt ordering is specified in the model number as F7, F12 or F14

Mechanical

Dimensions (LxD)	20.9x4.0 in (530x102 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	11 lbs (50.6 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	0.4 ft ² (0.04 m ²)
Weight *	3.2 lbs (1.45 kg)
Connector	2 x 4.1-9.5 female
Mounting Pole	Wood, Steel or Concrete Ø4" (10 cm) and larger

* Weight excludes mounting



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BRS Quasi-Omni Antenna

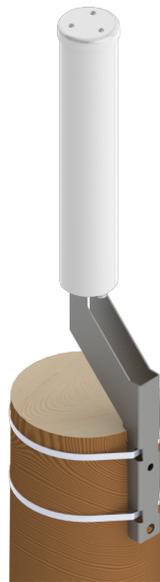
SCA-OM-360Fx-Q-H2

Bottom View



Mechanical

Typ. Pole Mount





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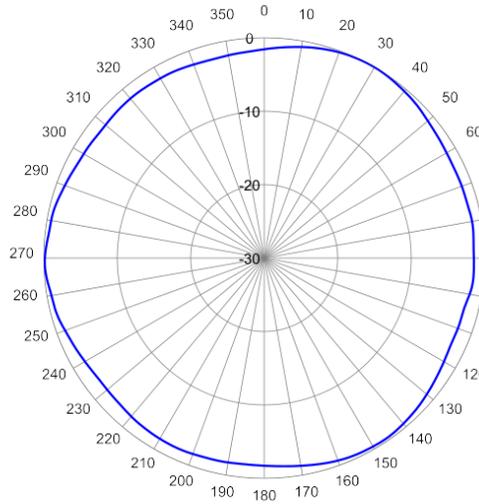
SPECIFICATIONS

BRS Quasi-Omni Antenna

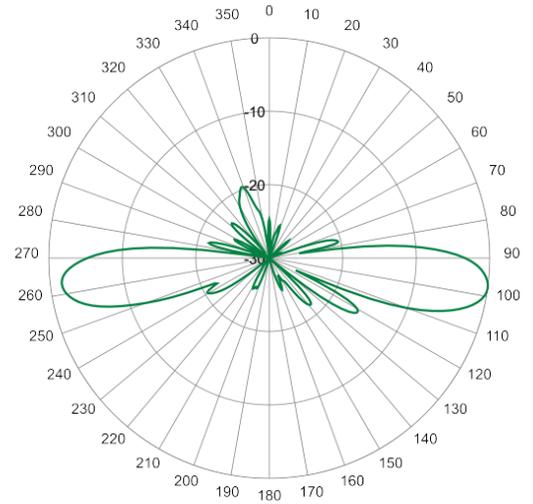
SCA-OM-360Fx-Q-H2

Typical Antenna Patterns

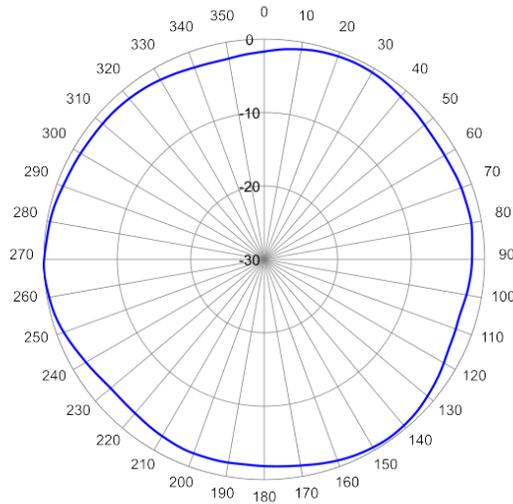
For detailed information on additional antenna patterns, contact customer support at support@cciproducts.com



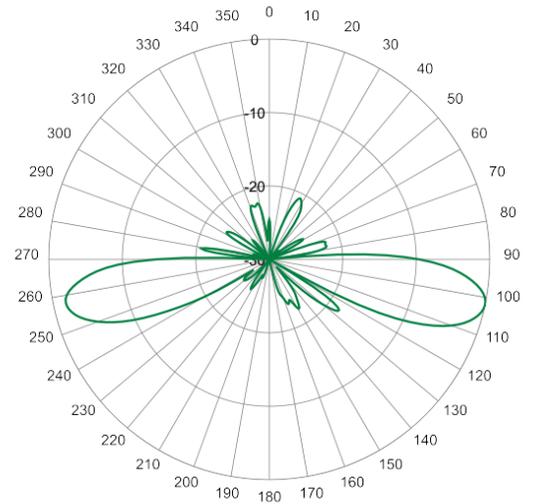
2562 MHz Azimuth of 7° downtilt



2562 MHz Elevation 7°



2562 MHz Azimuth of 12° downtilt



2562 MHz Elevation 12°

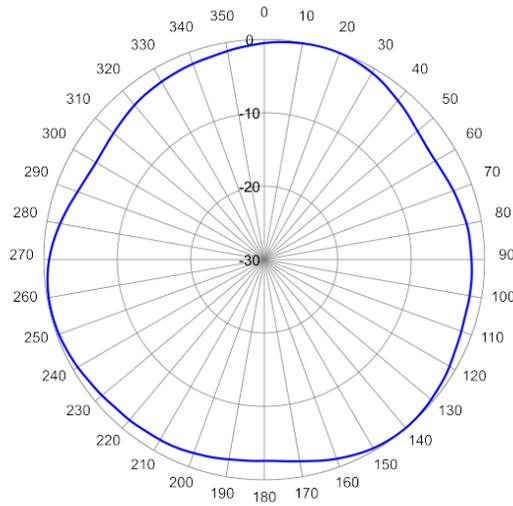


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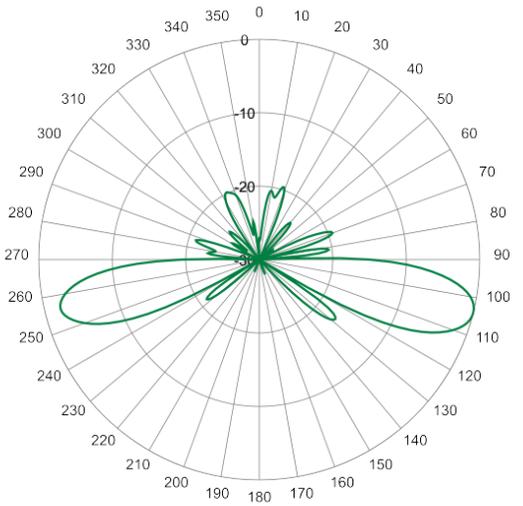
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2562 MHz Azimuth of 14° downtilt



2562 MHz Elevation 14°



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ORDERING

BRS Quasi-Omni Antenna

SCA-OM-360Fx-Q-H2

Parts & Accessories

SCA-OM-360F7-Q-H2-K	2 foot (0.5 m) Quasi-omni antenna with 7° elevation downtilt and MBC-06 pole top mounting kit
SCA-OM-360F12-Q-H2-K	2 foot (0.5 m) Quasi-omni antenna with 12° elevation downtilt and MBC-06 pole top mounting kit
SCA-OM-360F14-Q-H2-K	2 foot (0.5 m) Quasi-omni antenna with 14° elevation downtilt and MBC-06 pole top mounting kit
MBC-06	Pole top mounting kit



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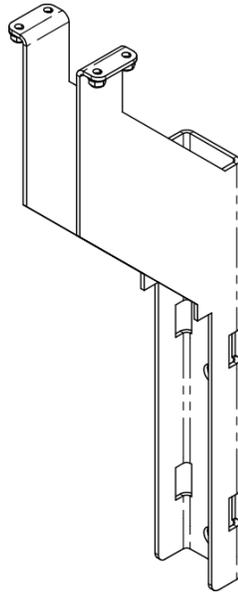
ACCESSORIES

Mounting Bracket Kit

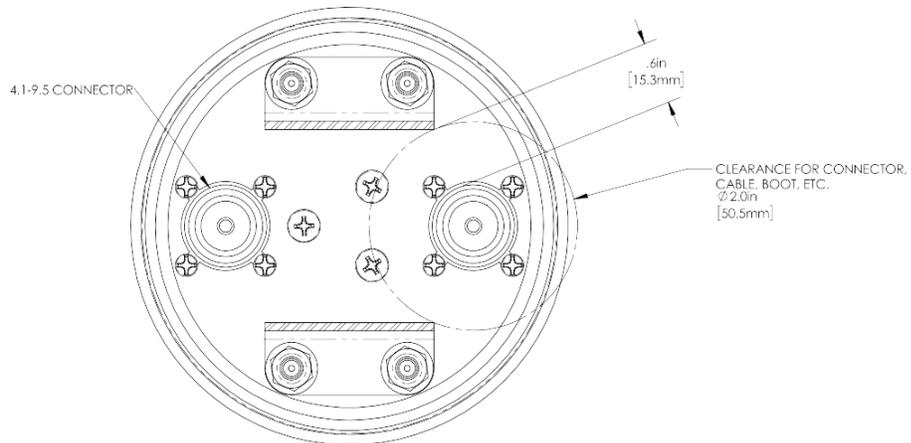
MBC-06

Mechanical

Weight	2.0 lbs (0.9 kg)
Mounting Pole Dimension	4 in (10 cm) and greater



MBC-06



Bottom view with connector clearance



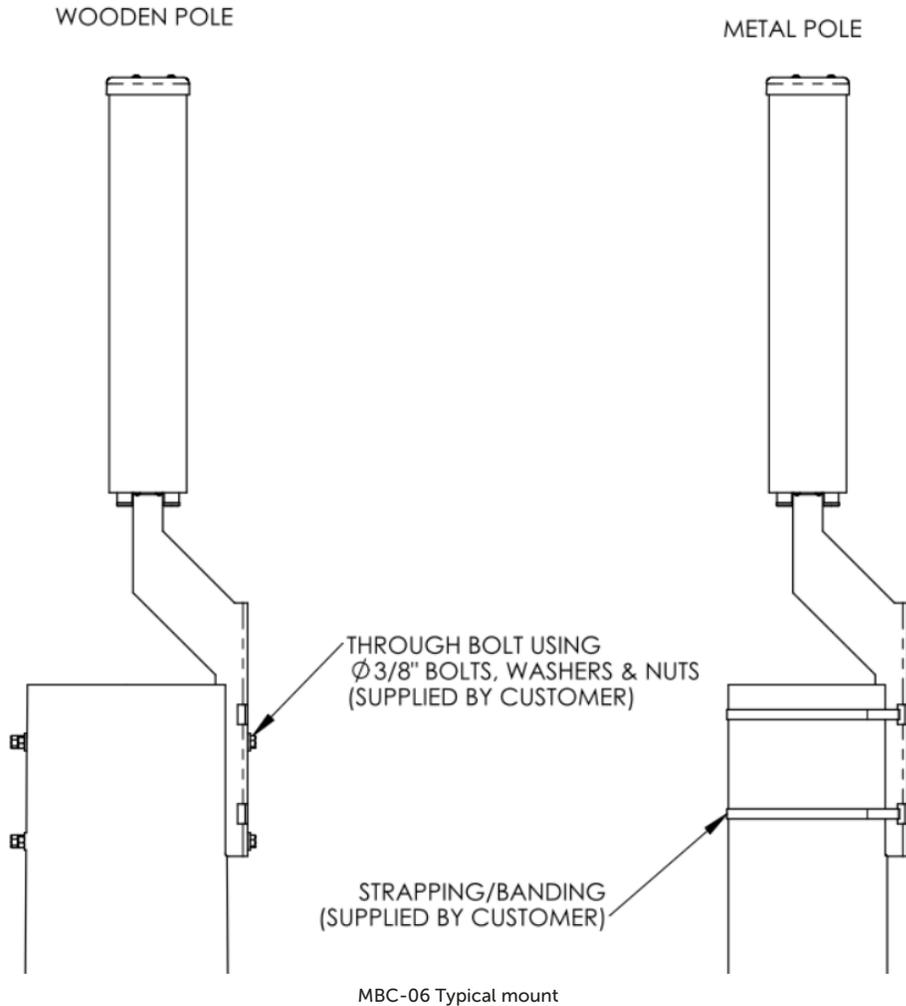
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ACCESSORIES

Mounting Bracket Kit

MBC-06

Suggested Mounting Options



Parts & Accessories

Model number MBC-06

Overall Weight 2.0 lbs (0.9 kg)



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STANDARDS & CERTIFICATIONS

Standards & Compliance

Environmental IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5,
 IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14,
 IEC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29,
 IEC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64,
 GR-63-CORE 4.3.1, EN 606529, IP 24

Certifications

Federal Communication Commission (FCC) Part 15 Class B, ISO 9001



CCI Communication Components Inc.
EXTENDING WIRELESS PERFORMANCE