

### Applications

- Upgrade of data-throughput of capacity constrained sites
- Antenna intended for use at sporting and entertainment venues



**SPECIFICATIONS** 

## Antennas

## Ultra Wideband Six Beam Antenna

### MBA6-9F-E-H3

Electrical

Ports	12 × High Band Ports which cover the full range from 1695-2690 MHz				
Frequency Range	1695-1880 MHz	1850-1990 MHz	1920-2180 MHz	2300-2400 MHz	2496-2690 MHz
Gain	20.6 dBi	21.4 dBi	21.6 dBi	22.2 dBi	22.6 dBi
Azimuth Beamwidth (-3dB)	11.0°	10.0°	9.3°	7.8°	7.1°
Azimuth Beam Crossover	10.7 dB	10.4 dB	10.4 dB	10.7 dB	10.1 dB
Elevation Beamwidth (-3dB)	14.0°	12.8°	12.1°	10.6°	9.6°
Electrical Downtilt	6°	6°	6°	6°	6°
Elevation Sidelobes (1st Upper) (Typ.)	< -22 dB	< -20 dB	< -19 dB	< -21 dB	< -19 dB
Front-to-Back Ratio @180° (Tpy.)	> 40 dB	> 40 dB	> 40 dB	> 40 dB	> 40 dB
Cross-Polar Port-to-Port Isolation	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB
Interbeam Co-Pol Isolation	> 15 dB	> 15 dB	> 15 dB	> 15 dB	> 15 dB
Interbeam Co-Pol Isolation (Non-Adjacent Beams) (Worse Case)	> 13 dB	> 13 dB	> 15 dB	> 13 dB	> 14 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2×20W)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc
Input Power Continuous Wave per Port	200 watts	200 watts	200 watts	200 watts	200 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground	DC Ground

Dimensions (L×W×D)	27.9×41.7×7.5 in (708×1058×191 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load <sup>1</sup>	214 lbf @ 100 mph 953 N @ 161 kph
Side Wind Load <sup>1</sup>	13 lbf @ 100 mph   60 N @ 161 kph
Effective Projective Area (EPA), Front <sup>1</sup>	8.6 ft <sup>2</sup> (0.8 m <sup>2</sup> )
Weight *	63.7 lbs (28.9 kg)
Package Dimensions (LxWxD)	35.1×51.5×15.0 in (891×1307×380 mm)
Package Weight	93.0 lbs (42.2 kg)
RF Connector	$12 \times 7-16$ DIN long neck female or $12 \times 4.3-10$ female
Mounting Pole	2 to 5 in (5 to 12 cm)



## SPECIFICATIONS

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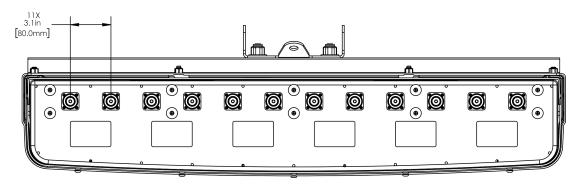
### MBA6-9F-E-H3

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Mechanical Bottom View



### Connector Spacing



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**SPECIFICATIONS** 

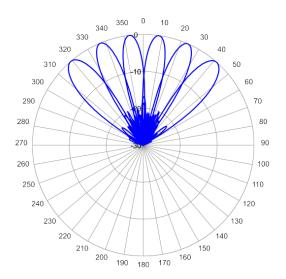
## Antennas

## Ultra Wideband Six Beam Antenna

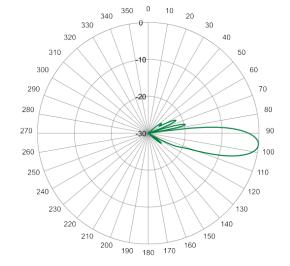
### MBA6-9F-E-H3

Typical Antenna Patterns

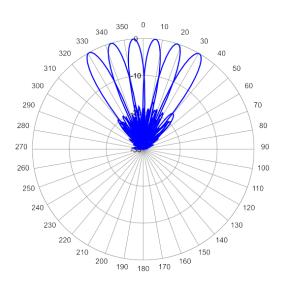
For detailed information on additional antenna patterns, contact customer support at support@cciproducts.com

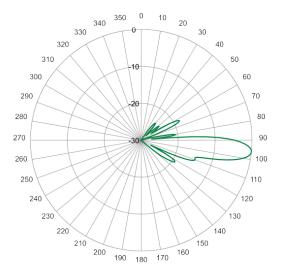


1930 MHz Azimuth



1930 MHz Elevation 6°





2562 MHz Elevation 6°

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2562 MHz Azimuth



## ORDERING 🛛

## Ultra Wideband Six Beam Antenna

### MBA6-9F-E-H3

Parts & Accessories						
МВА6-9F-Е-Н3-С2-К	Three foot (0.7 m) Special Events Six-Beam Antenna with Fixed Electrical Tilt and 7-16 DIN Female connectors and MBK-03 mounting bracket					
	Three foot (0.7 m) Special Events Six-Beam Antenna with Fixed Electrical Tilt and 4.3-10 Female connectors and MBK-03 mounting bracket					
MBK-03	Mounting bracket kit (top and bottom) with 0° to 12° mechanical tilt adjustment					

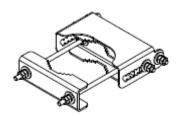
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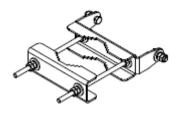
## Mounting Bracket Kit

MBK-03

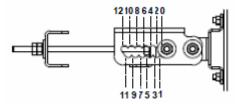
Mechanical	
Weight	9.8 lbs (4.4 kg)
Hinge Pitch	13 in (330 mm)
Mounting Pole Dimension	2 to 5 in (5 to 12 cm)
Fastener Size	M10
Installation Torque	15 ft·lbs (20 N·m)
Mechanical Tilt Adjustment	0° - 12°



MBK-03 Top Adjustable Bracket



MBK-03 Bottom Fixed Bracket



MBK-03 Top Adjustable Bracket Side View

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### STANDARDS & CERTIFICATIONS

## Ultra Wideband Six Beam Antenna

MBA6-9F-E-H3

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 60529, IP 24

Certifications

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



