

Base Station Antennas



ANTENNA SPECIFICATIONS

ANTENNA TYPE: UMW-XAZ06-0D

Description: 1710-2170 MHz, single polarized, azimuth beamwidth set at 33 degrees, 18 dBd gain panel antenna with 0 degrees of electrical downtilt

Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1920	1900-2170
Gain, dBd (dBi)	18.0 (20.2)	18.6 (20.8)	18.9 (21.1)
Azimuth Beamwidth, degrees	37	33	30
Elevation Beamwidth, degrees	7.0	6.5	6.0
Front-to-Back Ratio, dB	>40	>40	>40
Return Loss, dB (VSWR)	>14.0 (<1.5)	>14.0 (<1.5)	>14.0 (<1.5)
Impedance, ohms	50	50	50
Port to Port Isolation, dB	N/A	NA	NA
Intermodulation, dBc		<-150 (2 X 10w)	
Polarization Type		Single, Vertical	
Electrical Downtilt, degrees		0	
Maximum Input Power, watts		250	
Lightning Protection		DC Ground	
Connector Type		7-16 DIN Female	
Connector Position		Bottom	
Number of Connectors		1	

Mechanical Specifications

Antenna Dimensions - L x W x D, mm (in)	1468 (57.8) x 295 (11.6) x 151 (5.9)
Antenna Weight, kg (lb)	8.6 (19.0)
Radome Color	Gray
Radome Material	UV Protected PVC

Environmental Specifications

Survival Wind Speed, km/h (mph)	201 (125)
Wind Load - frontal, N (lbf)*	673 (151)
Wind Load - lateral, N (lbf)*	442 (99)
Wind Load - rear, N (lbf)*	797 (179)
Temperature Range, degrees C	-40 to +65
Humidity, %	Up to 100
* Based on 100 mph (161 km/h)	

Shipping Specifications

Shipping Dimensions - L x W x D, mm (in)	1683 (66.3) x 300 (11.8) x 254 (10)
Shipping Weight, kg (lb)	13.3 (29.3)

Mounting Hardware Specifications

Mounting Bracket Part Number	600691A-2
Mount Description	Adjustable downtilt, 0 - 14 degrees
Mount Weight, kg (lb)	1.0 (2.2)
To include mounting bracket with antenna, order part number:	UMW-XAZ06-0DM
Shipping Dimensions - mount with antenna - L x W x D, mm (in)	1765 (69.6) x 300 (11.8) x 254 (10)
Shipping Weight - mount with antenna, kg (lb)	14.4 (31.8)

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

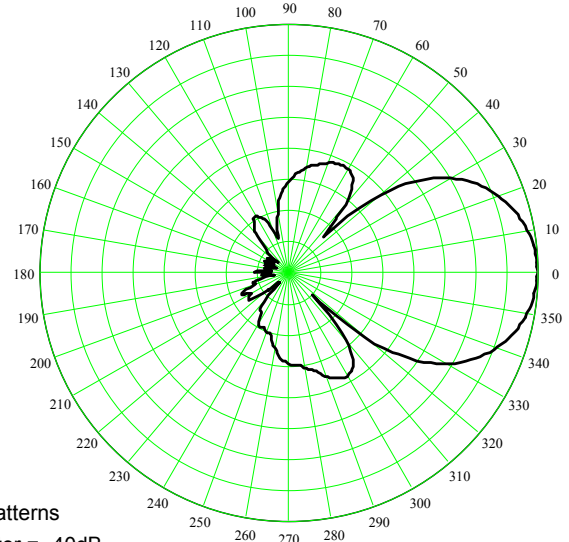
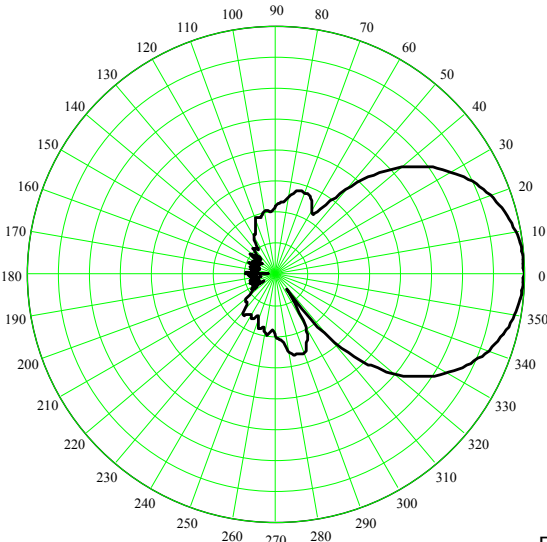
Bulletin # 94238 - Rev. 1/21/2002

Base Station Antennas

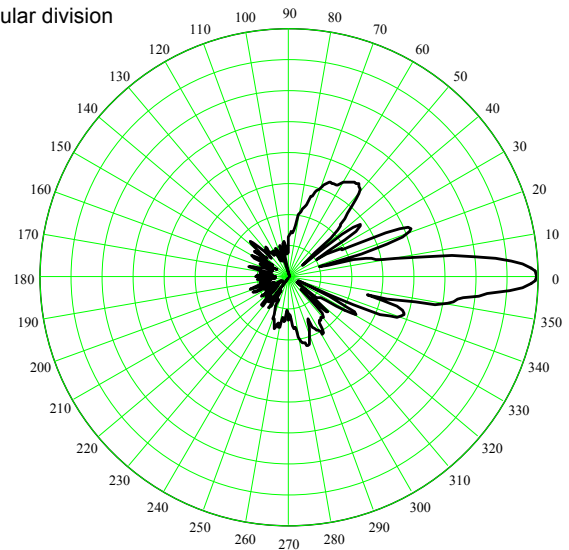
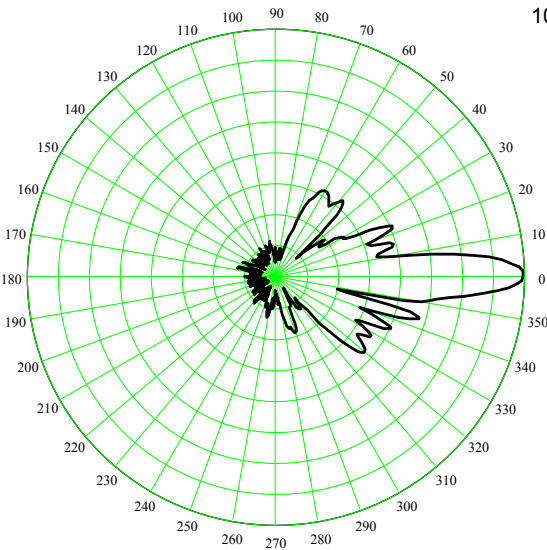


ANTENNA SPECIFICATIONS

ANTENNA TYPE: UMW-XAZ06-0D



Azimuth Patterns
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division



Elevation Patterns
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division

Pattern File 6405621
Measured at 1795 MHz

Pattern File 6405622
Measured at 1920 MHz

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

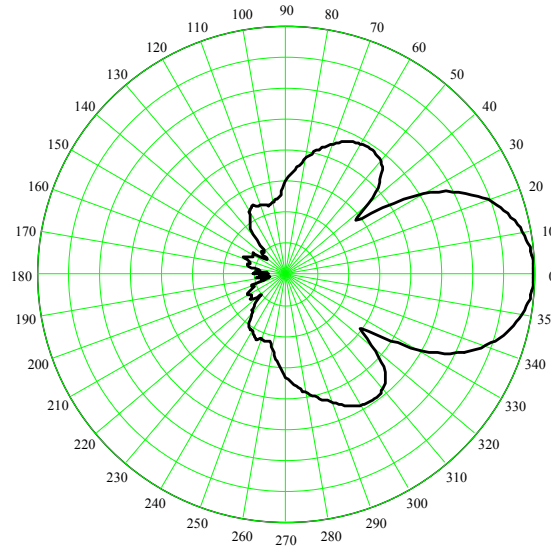
Bulletin # 94238 - Rev. 1/21/2002

Base Station Antennas

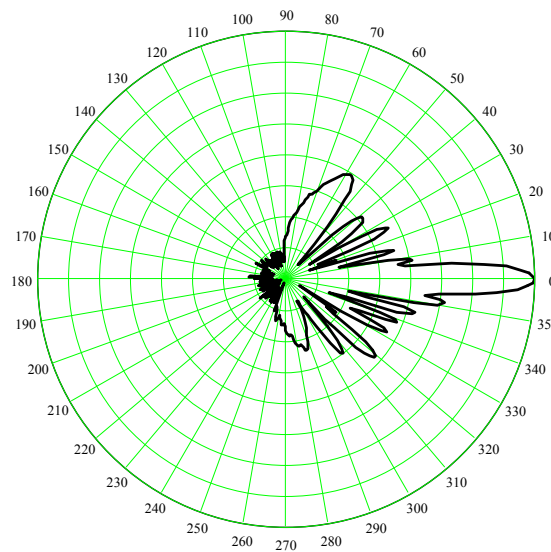


ANTENNA SPECIFICATIONS

ANTENNA TYPE: UMW-XAZ06-0D



Azimuth Pattern
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division



Elevation Pattern
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division

Pattern File 6405623
Measured at 2040 MHz

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

Bulletin # 94238 - Rev. 1/21/2002

Base Station Antennas



ANTENNA SPECIFICATIONS

ANTENNA TYPE: UMW-XAZ06-0D

Description: 1710-2170 MHz, single polarized, azimuth beamwidth set at 45 degrees, 17 dBd gain panel antenna with 0 degrees of electrical downtilt

Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1920	1900-2170
Gain, dBd (dBi)	17.1 (19.3)	17.7 (19.9)	17.9 (20.1)
Azimuth Beamwidth, degrees	47	45	42
Elevation Beamwidth, degrees	7.0	6.5	6.0
Front-to-Back Ratio, dB	>40	>40	>40
Return Loss, dB (VSWR)	>14.0 (<1.5)	>14.0 (<1.5)	>14.0 (<1.5)
Impedance, ohms	50	50	50
Port to Port Isolation, dB	N/A	NA	NA
Intermodulation, dBc		<-150 (2 X 10w)	
Polarization Type		Single, Vertical	
Electrical Downtilt, degrees		0	
Maximum Input Power, watts		250	
Lightning Protection		DC Ground	
Connector Type		7-16 DIN Female	
Connector Position		Bottom	
Number of Connectors		1	

Mechanical Specifications

Antenna Dimensions - L x W x D, mm (in)	1468 (57.8) x 295 (11.6) x 151 (5.9)
Antenna Weight, kg (lb)	8.6 (19.0)
Radome Color	Gray
Radome Material	UV Protected PVC

Environmental Specifications

Survival Wind Speed, km/h (mph)	201 (125)
Wind Load - frontal, N (lbf)*	673 (151)
Wind Load - lateral, N (lbf)*	442 (99)
Wind Load - rear, N (lbf)*	797 (179)
Temperature Range, degrees C	-40 to +65
Humidity, %	Up to 100
* Based on 100 mph (161 km/h)	

Shipping Specifications

Shipping Dimensions - L x W x D, mm (in)	1683 (66.3) x 300 (11.8) x 254 (10)
Shipping Weight, kg (lb)	13.3 (29.3)

Mounting Hardware Specifications

Mounting Bracket Part Number	600691A-2
Mount Description	Adjustable downtilt, 0 - 14 degrees
Mount Weight, kg (lb)	1.0 (2.2)
To include mounting bracket with antenna, order part number:	UMW-XAZ06-0DM
Shipping Dimensions - mount with antenna - L x W x D, mm (in)	1765 (69.6) x 300 (11.8) x 254 (10)
Shipping Weight - mount with antenna, kg (lb)	14.4 (31.8)

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

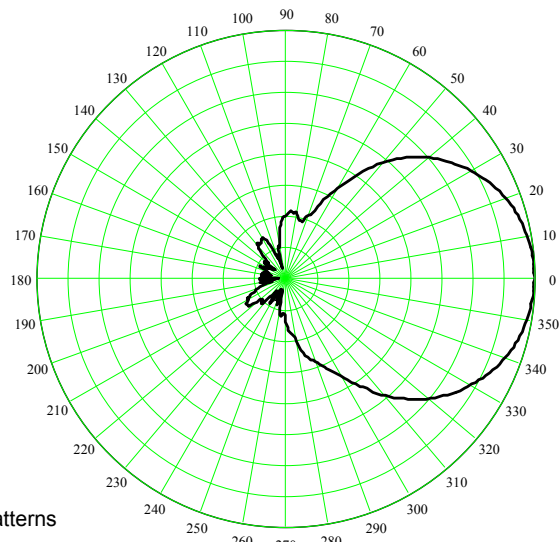
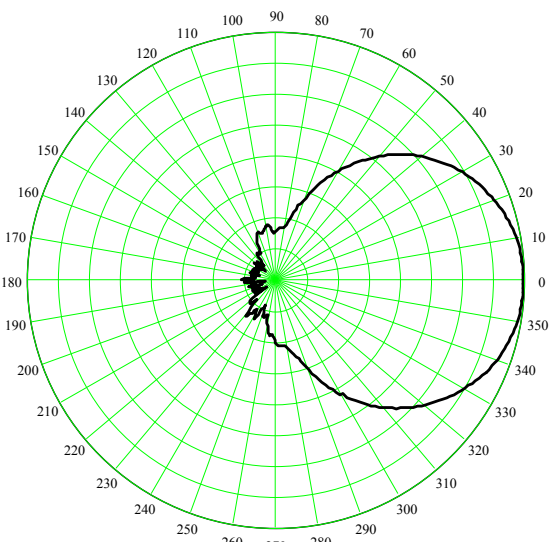
Bulletin # 94238 - Rev. 1/21/2002

Base Station Antennas

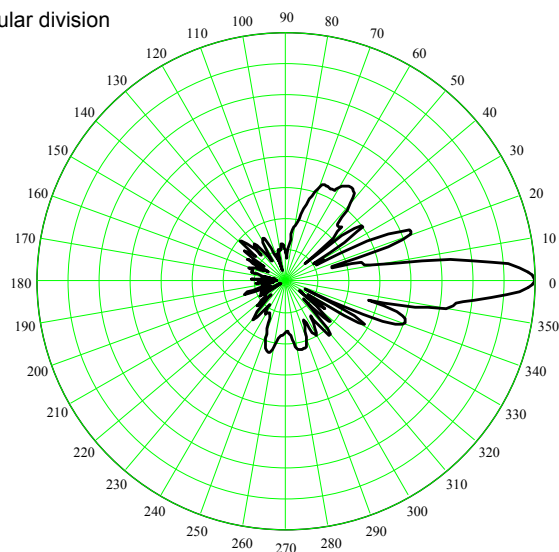
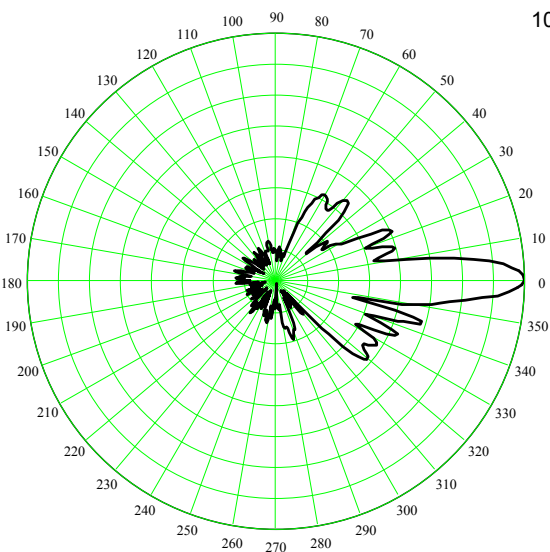


ANTENNA SPECIFICATIONS

ANTENNA TYPE: UMW-XAZ06-0D



Azimuth Patterns
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division



Elevation Patterns
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division

Pattern File 6405631
Measured at 1795 MHz

Pattern File 6405632
Measured at 1920 MHz

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

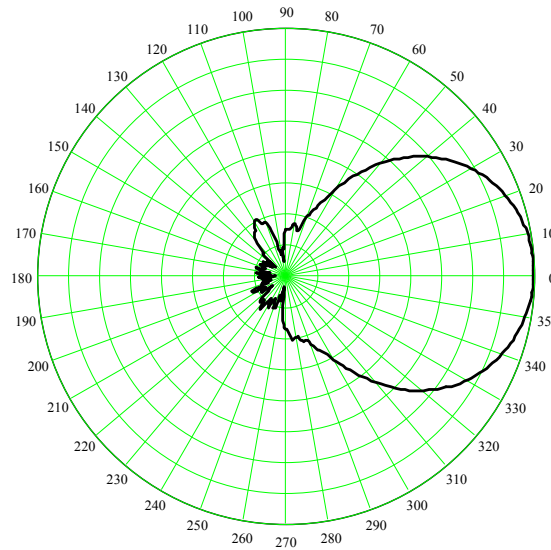
Bulletin # 94238 - Rev. 1/21/2002

Base Station Antennas

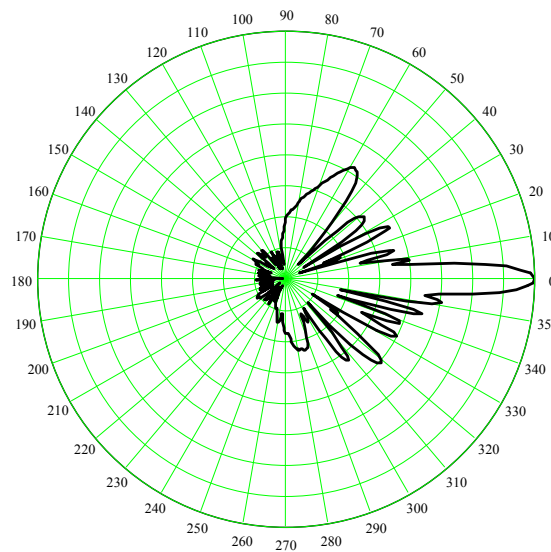


ANTENNA SPECIFICATIONS

ANTENNA TYPE: UMW-XAZ06-0D



Azimuth Pattern
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division



Elevation Pattern
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division

Pattern File 6405633
Measured at 2040 MHz

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

Bulletin # 94238 - Rev. 1/21/2002

Base Station Antennas



ANTENNA SPECIFICATIONS

ANTENNA TYPE: UMW-XAZ06-0D

Description: 1710-2170 MHz, single polarized, azimuth beamwidth set at 65 degrees, 15 dBd gain panel antenna with 0 degrees of electrical downtilt

Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1920	1900-2170
Gain, dBd (dBi)	15.5 (17.7)	15.8 (18.0)	16.0 (18.1)
Azimuth Beamwidth, degrees	67	65	65
Elevation Beamwidth, degrees	7.0	6.5	6.0
Front-to-Back Ratio, dB	>40	>40	>40
Return Loss, dB (VSWR)	>14.0 (<1.5)	>14.0 (<1.5)	>14.0 (<1.5)
Impedance, ohms	50	50	50
Port to Port Isolation, dB	N/A	NA	NA
Intermodulation, dBc		<-150 (2 X 10w)	
Polarization Type		Single, Vertical	
Electrical Downtilt, degrees		0	
Maximum Input Power, watts		250	
Lightning Protection		DC Ground	
Connector Type		7-16 DIN Female	
Connector Position		Bottom	
Number of Connectors		1	

Mechanical Specifications

Antenna Dimensions - L x W x D, mm (in)	1468 (57.8) x 295 (11.6) x 151 (5.9)
Antenna Weight, kg (lb)	8.6 (19.0)
Radome Color	Gray
Radome Material	UV Protected PVC

Environmental Specifications

Survival Wind Speed, km/h (mph)	201 (125)
Wind Load - frontal, N (lbf)*	673 (151)
Wind Load - lateral, N (lbf)*	442 (99)
Wind Load - rear, N (lbf)*	797 (179)
Temperature Range, degrees C	-40 to +65
Humidity, %	Up to 100
* Based on 100 mph (161 km/h)	

Shipping Specifications

Shipping Dimensions - L x W x D, mm (in)	1683 (66.3) x 300 (11.8) x 254 (10)
Shipping Weight, kg (lb)	13.3 (29.3)

Mounting Hardware Specifications

Mounting Bracket Part Number	600691A-2
Mount Description	Adjustable downtilt, 0 - 14 degrees
Mount Weight, kg (lb)	1.0 (2.2)
To include mounting bracket with antenna, order part number:	<u>UMW-XAZ06-0DM</u>
Shipping Dimensions - mount with antenna - L x W x D, mm (in)	1765 (69.6) x 300 (11.8) x 254 (10)
Shipping Weight - mount with antenna, kg (lb)	14.4 (31.8)

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

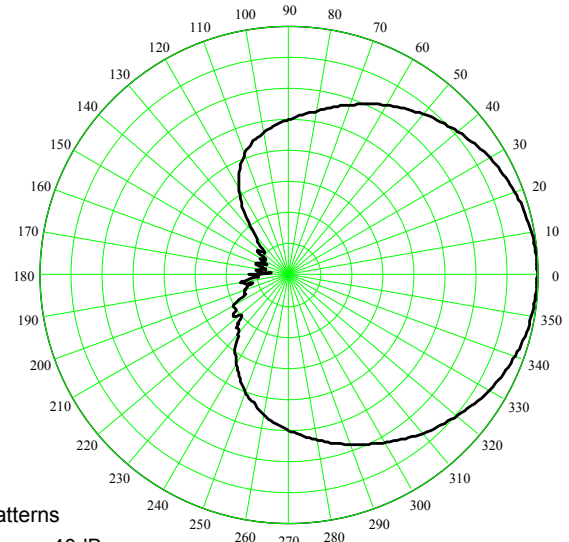
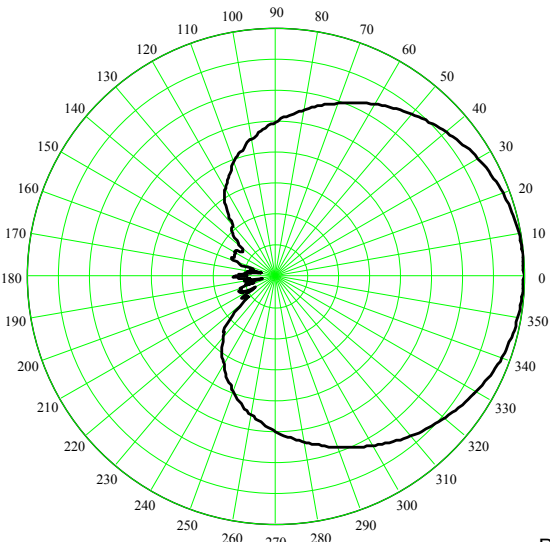
Bulletin # 94238 - Rev. 1/21/2002

Base Station Antennas

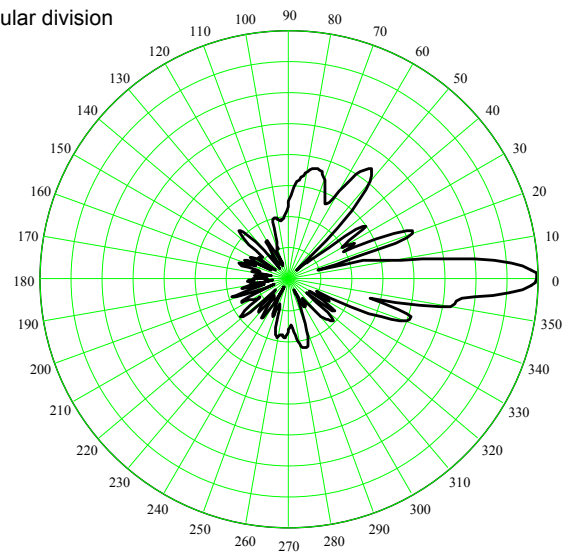
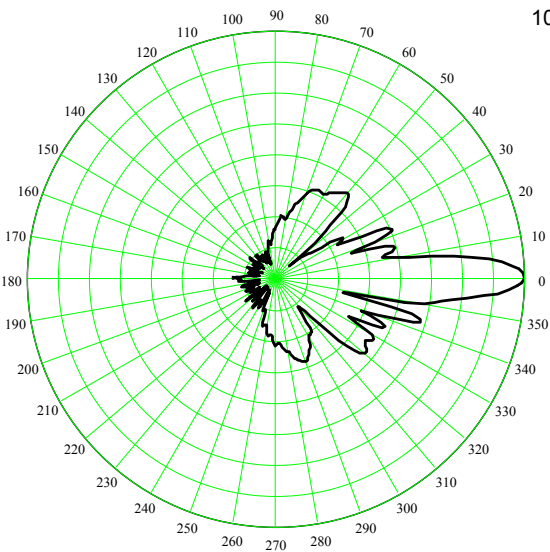


ANTENNA SPECIFICATIONS

ANTENNA TYPE: UMW-XAZ06-0D



Azimuth Patterns
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division



Elevation Patterns
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division

Pattern File 6405641
Measured at 1795 MHz

Pattern File 6405642
Measured at 1920 MHz

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

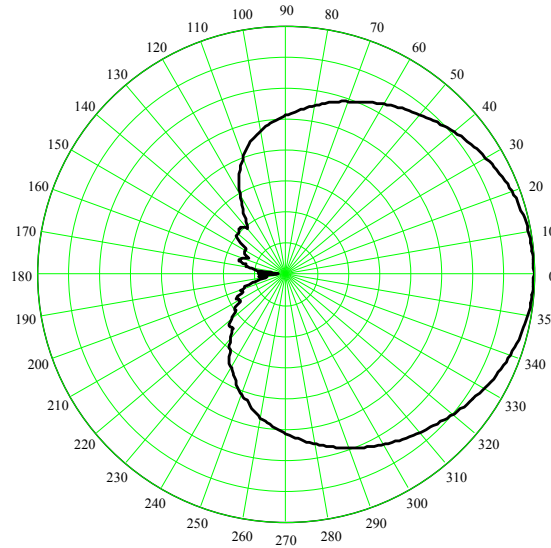
Bulletin # 94238 - Rev. 1/21/2002

Base Station Antennas

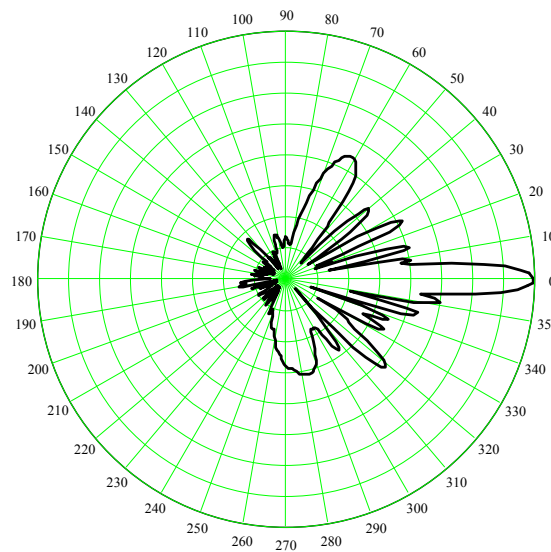


ANTENNA SPECIFICATIONS

ANTENNA TYPE: **UMW-XAZ06-0D**



Azimuth Pattern
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division



Elevation Pattern
Polar Plot Center = -40dB
5 dB / radial division
10 degree / angular division

Pattern File 6405643
Measured at 2040 MHz

Customer Support Center:

From North America: 1-800-255-1479

International: +1-708-873-2307

www.andrew.com

This Specification Sheet is for reference only and is subject to change without notice.

Copyright ©2001 Andrew Corporation, Printed in the U.S.A.

Bulletin # 94238 - Rev. 1/21/2002