UHP10-59W-P3M



3.0 m | 10 ft Ultra High Performance Parabolic Shielded Antenna, single-polarized, 5.925–7.125 GHz, CPR137G, gray antenna, enhanced white radome with flash, standard pack—two-piece reflector

Product Classification

Product Type Microwave antenna

General Specifications

Antenna Type UHP - Ultra High Performance Parabolic Shielded Antenna, single-polarized

Diameter, nominal3.0 m | 10 ftPackingStandard pack

Radome ColorWhiteRadome MaterialEnhanced

Reflector Construction Two-piece reflector

Antenna Input CPR137G
Antenna Color Gray

Antenna Type UHP - Ultra High Performance Parabolic Shielded Antenna, single-polarized

Diameter, nominal 3.0 m | 10 ft

Flash Included Yes
Polarization Single

Electrical Specifications

Operating Frequency Band 5.925 – 7.125 GHz

Beamwidth, Horizontal1.3 °Beamwidth, Vertical1.3 °Boresite Cross Polarization Discrimination (XPD)35 dB

Electrical Compliance ETSI Class 3 | US FCC Part 101A | US FCC Part 74A

Front-to-Back Ratio 78 dB
Gain, Low Band 42.4 dBi
Gain, Mid Band 43.3 dBi
Gain, Top Band 43.7 dBi

Operating Frequency Band 5.925 – 7.125 GHz
Radiation Pattern Envelope Reference (RPE) 3498 | 3500
Return Loss 30.7 dB

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UHP10-59W-P3M

VSWR 1.06

Mechanical Specifications

Fine Azimuth Adjustment ±5°
Fine Elevation Adjustment ±5°

 Mounting Pipe Diameter
 115 mm | 4.5 in

 Net Weight
 261 kg | 575 lb

Side Struts, Included 1 inboard | 1 outboard

Side Struts, Optional 2 outboard

Wind Velocity Operational110 km/h68 mphWind Velocity Survival Rating200 km/h125 mph

Wind Forces At Wind Velocity Survival Rating

Angle α for MT Max -110 $^{\circ}$

Axial Force (FA) 17632 N | 3964 lbf Force on Inboard Strut Side 5870 N | 1320 lbf Force on Outboard Strut Side 8840 N | 1987 lbf 8734 N | 1963 lbf Side Force (FS) **Twisting Moment (MT)** -8630 N-m | -6365 ft lb Weight with 1/2 in (12 mm) Radial Ice 577 kg | 1272 lb Zcg with 1/2 in (12 mm) Radial Ice 818 mm | 32 in Zcg without Ice 767 mm | 30 in

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Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

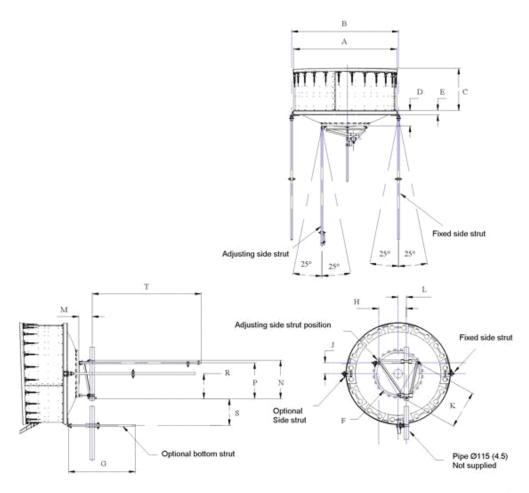
Gross Weight, Packed Antenna	513.0 kg	1131.0 lb
Height	1930.0 mm	76.0 in
Length	3140.0 mm	123.6 in
Volume	7.7 m^3	

Width 1170.0 mm | 46.1 in

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Antenna Dimensions And Mounting Information



	ANTENNA DIMENSIONS All dimensions in mm (inches)				
A	3160 (124.5)	к	950 (37.5)		
В	3315 (130.5)	j.L	200 (8)		
С	800 (31.5)	М	330 (13)		
D	615 (24.25)	N	950 (37.5)		
E	140 (5.5)	Р	895 (35.25)		
F	1100 (43.25)	R	625 (24.5)		
G	1525 (60)	s	1000 (39.25)		
н	680 (26.75)	Т	3050 (120)		
J	275 (10.75)				

Regulatory Compliance/Certifications

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UHP10-59\W-P3M

Boresite Cross Polarization Discrimination (XPD)

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



* Footnotes

Axial Force (FA) Maximum forces exerted on a supporting structure as a result of wind from the

most critical direction for this parameter. The individual maximums specified may

not occur simultaneously. All forces are referenced to the mounting pipe.

The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the

co-polarized main beam.

Front-to-Back RatioDenotes highest radiation relative to the main beam, at 180° ±40°, across the

band. Production antennas do not exceed rated values by more than 2 dB unless

stated otherwise.

Gain, Mid Band For a given frequency band, gain is primarily a function of antenna size. The gain

of Andrew antennas is determined by either gain by comparison or by computer

integration of the measured antenna patterns.

Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used

throughout the world. Other ranges can be accommodated on special order.

PackingAndrew standard packing is suitable for export. Antennas are shipped as standard

in totally recyclable cardboard or wire-bound crates (dependent on product). For

your convenience, Andrew offers heavy duty export packing options.

Radiation Pattern Envelope Reference (RPE) Radiation patterns define an antenna's ability to discriminate against unwanted

signals. Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy of

+/-1° throughout

Return LossThe figure that indicates the proportion of radio waves incident upon the antenna

that are rejected as a ratio of those that are accepted.

Side Force (FS)Maximum side force exerted on the mounting pipe as a result of wind from the

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Twisting Moment (MT)Maximum forces exerted on a supporting structure as a result of wind from the

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not occur simultaneously. All forces are referenced to the mounting pipe.

VSWR Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the

operating band.

Wind Velocity OperationalThe wind speed where the antenna deflection is equal to or less than 0.1 degrees.

In the case of ValuLine antennas, it is defined as a maximum deflection of 0.3 x

the 3 dB beam width of the antenna.

Wind Velocity Survival Rating The maximum wind speed the antenna, including mounts and radomes, where

applicable, will withstand without permanent deformation. Realignment may be

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UHP10-59W-P3M

required. This wind speed is applicable to antenna with the specified amount of radial ice.

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UHP10-59W



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Product Classification

Product Type Microwave antenna

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UHP10-59W

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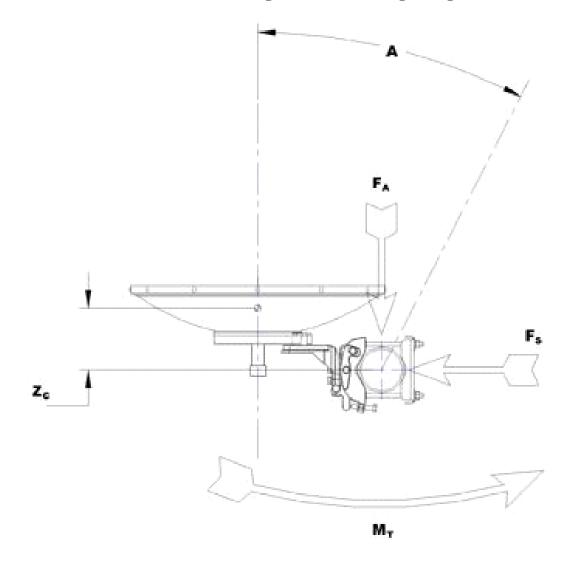
Wind Forces At Wind Velocity Survival Rating

Angle α for MT Max	-110 °
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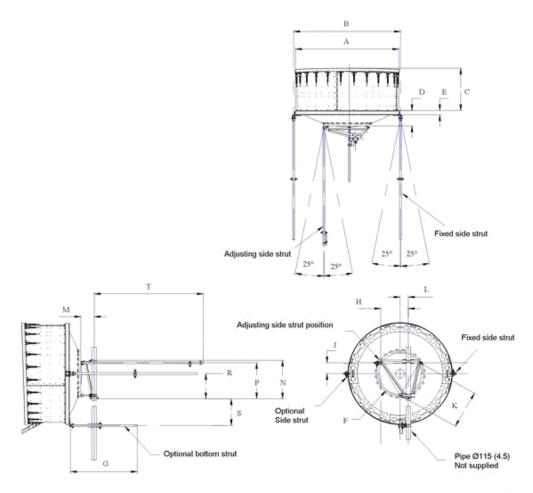
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Wind Forces At Wind Velocity Survival Rating Image



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Regulatory Compliance/Certifications

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UHP10-59\M

Agency Classification

Boresite Cross Polarization Discrimination (XPD)

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



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