



SBNH-1D6565C

Andrew® Dual Band Antenna, 698–896 MHz and 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal next generation actuator eliminates field installation and defines new standards for reliability
- The values presented on this datasheet have been calculated based on N-P-BASTA White Paper version 9.6 by the NGMN Alliance

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	15.6	16.3	17.8	17.9	18.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.3	±0.2	±0.5
Gain by Beam Tilt, average, dBi	0° 15.6	0° 16.2	0° 18.0	0° 17.8	0° 18.0
	6° 15.7	6° 16.4	4° 17.9	4° 17.9	4° 18.2
	11° 15.3	11° 16.1	7° 17.6	7° 17.8	7° 18.1
Beamwidth, Horizontal, degrees	72	67	60	59	60
Beamwidth, Horizontal Tolerance, degrees	±3	±3.1	±3.2	±2	±3.3
Beamwidth, Vertical, degrees	8.6	7.8	5.6	5.2	4.9
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.3	±0.2	±0.4
Beam Tilt, degrees	0–11	0–11	0–7	0–7	0–7
USLS, dB	17	17	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	23	21	30	29	27
CPR at Boresight, dB	26	20	18	18	18
CPR at Sector, dB	13	8	9	8	9
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	35	35	35	35	35
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	400	400	300	300	300
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® dual band
Band	Multiband
Brand	DualPol® Teletilt®
Operating Frequency Band	1710 – 2180 MHz 698 – 896 MHz
Number of Ports, all types	4

Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Aluminum
Radome Material	Fiberglass, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom

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RF Connector Quantity, total	4
Wind Loading, maximum	879.0 N @ 150 km/h 197.6 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph

Dimensions

Depth	181.0 mm 7.1 in
Length	2449.0 mm 96.4 in
Width	301.0 mm 11.9 in
Net Weight	23.5 kg 51.8 lb

Remote Electrical Tilt (RET) Information

Adjustment Time, full range, maximum	30 s
Annual Failure Rate, maximum	0.01%
Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	11.0 W
Protocol	3GPP/AISG 2.0 Multi-RET
RET Interface	RS-485 Female (daisy chain port ,1) RS-485 Male (input port, 1)
RET Interface, quantity	1 female 1 male
RET System	Teletilt®

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)



Included Products

DB380-5083 — Standard two point mounting system to secure BSA panels to pipes with an OD measuring 2.4-4.5" (60-115mm). Includes locking downtilt brackets and heavy guage pipe brackets to provide superior windload performance.

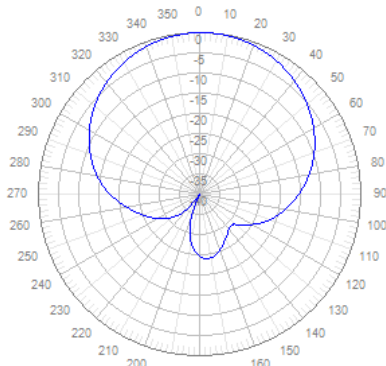
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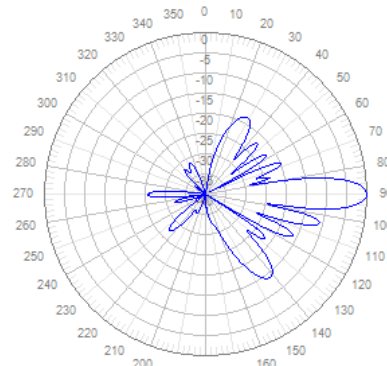


Horizontal Pattern

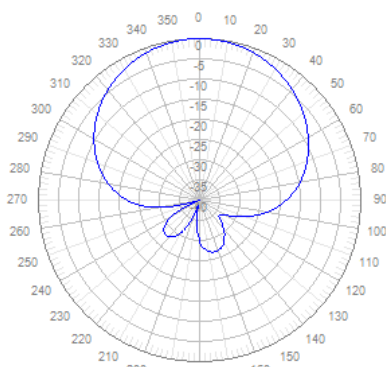
Vertical Pattern



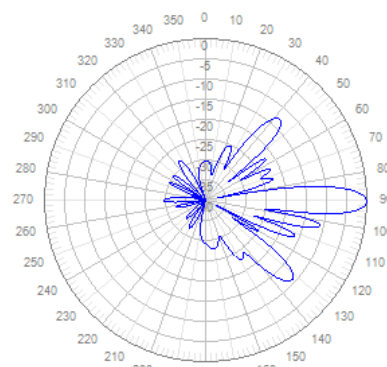
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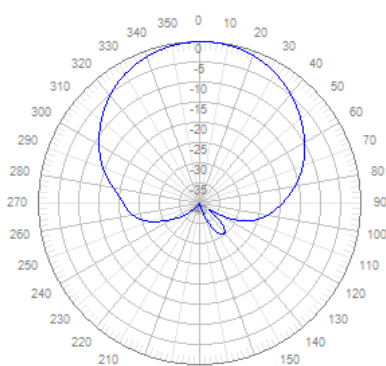
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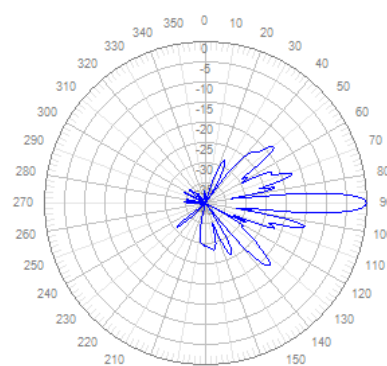
Freq: 850, Tilt: 0°



Freq: 850, Tilt: 0°



Freq: 1785, Tilt: 0°



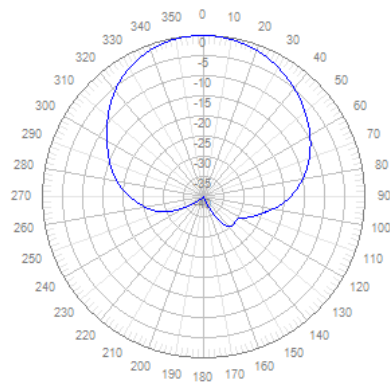
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Product Specifications

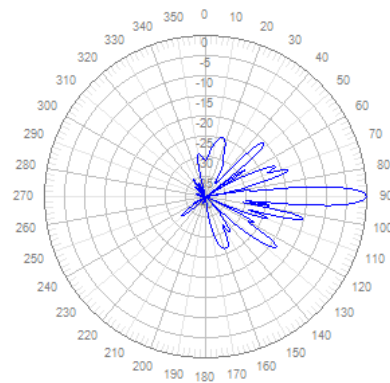
COMMScope®

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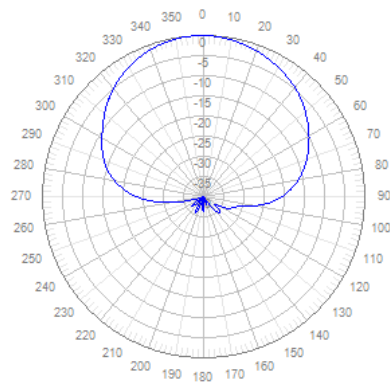
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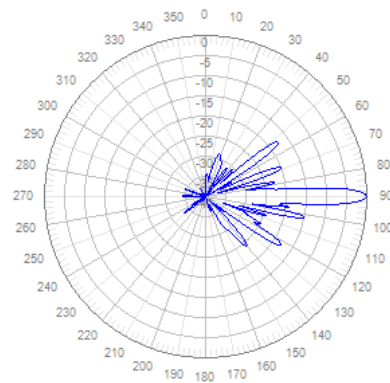
Freq: 1920, Tilt: 0°



Freq: 1920, Tilt: 0°



Freq: 2110, Tilt: 0°



Freq: 2110, Tilt: 0°

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DB380-5083

Standard two point mounting system to secure BSA panels to pipes with an OD measuring 2.4-4.5" (60-115mm). Includes locking downtilt brackets and heavy gauge pipe brackets to provide superior windload performance.

General Specifications

Antenna Brand	Andrew®
Mount Type	Downtilt mounts
Application	Outdoor
Includes	Brackets Hardware
Package Quantity	1

Mechanical Specifications

Color	Silver
Material Type	Galvanized steel

Dimensions

Compatible Diameter, maximum	114.3 mm 4.5 in
Compatible Diameter, minimum	61.0 mm 2.4 in
Net Weight	4.1 kg 8.9 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Below Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

