Product Specifications



SBH-2D3318

SmartBeam® DualPol® Antenna, 1710-2180 MHz, 33° horizontal beamwidth, remote electrical tilt and pan



- SmartBeam® antenna system with 2° of freedom
- Remote electrical tilt, 0-10°
- Remote boresite adjustment, ±30°
- Significantly reduces operational expense by remote control of tilt and horizontal beam direction
- Delays the need to add radios or sites by providing superior capacity efficiency of existing radios through dynamic load balancing
- Fully compatible with Andrew Teletilt® remote control system
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Fully supports PCS 1900, GSM 1800, UMTS 2100, and AWS spectrum

CHARACTERISTICS

General Specifications

Antenna Type SmartBeam®

Brand DualPol® | SmartBeam® | Teletilt®

Operating Frequency Band 1710 - 2180 MHz

Electrical Specifications

Francisco Pand Mile	1710-1880	1050 1000	1920-2180
Frequency Band, MHz	1/10-1880	1850-1990	1920-2180
Beamwidth, Horizontal, degrees	37	35	32
Gain, dBd	17.8	17.9	18.0
Gain, dBi	19.9	20.0	20.1
Beamwidth, Vertical, degrees	7.5	7.0	6.5
Beam Tilt, degrees	0-10	0-10	0-10
Upper Sidelobe Suppression (USLS), typical, dB	21	20	20
Front-to-Back Ratio at 180°, dB	40	40	40
Isolation, dB	30	30	30
VSWR Return Loss, db	1.5:1 14.0	1.5:1 14.0	1.5:1 14.0
Intermodulation Products, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power, maximum, watts	250	250	250
Polarization	±45°	±45°	±45°
Impedance, ohms	50	50	50
Lightning Protection	dc Ground	dc Ground	dc Ground

Product Specifications



Mechanical Specifications

Light gray

Connector Interface 7-16 DIN Female

Connector Location **Bottom** Connector Quantity

Radome Material Fiberglass, UV resistant Wind Loading, maximum 344.0 N @ 150 km/h 77.3 lbf @ 150 km/h

Wind Speed, maximum 241.4 km/h | 150.0 mph

Dimensions

Length 1616.2 mm | 63.6 in Outer Diameter 267.0 mm | 10.5 in Net Weight 19.2 kg | 42.3 lb

Remote Electrical Tilt (RET) Information

Adjustment Time, full range, maximum 30 s Annual Failure Rate, maximum 0.01% Power Consumption, during motor movements, maximum 11.0 W Power Consumption, idle state, maximum 2.0 W Power Input 10-30 V

Protocol Andrew vendor specific

RS-485 Male (input port, 1) | RS-485 Female (daisy chain **RET Interface**

port,1)

RET System Teletilt®

Regulatory Compliance/Certifications

Agency

Classification RoHS 2002/95/EC

China RoHS SJ/T 11364-2006

ISO 9001:2008

Compliant by Exemption

Above Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system





INCLUDED PRODUCTS

600899F

www.commscope.com/andrew

Product Specifications SBH-2D3318



Pipe Mounting Kit for 2.95 - 4.5 in (75 - 115 mm) OD round members

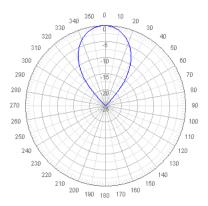
Product Specifications



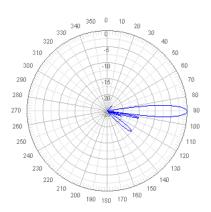


Horizontal Pattern

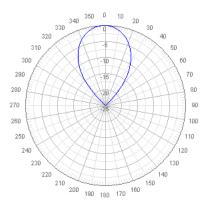
Vertical Pattern



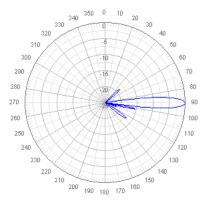
Freq: 1785 MHz, Tilt: 0°



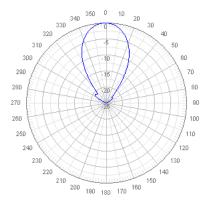
Freq: 1785 MHz, Tilt: 0°



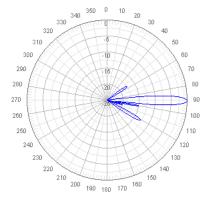
Freq: 1920 MHz, Tilt: 0°



Freq: 1920 MHz, Tilt: 0°



Freq: 2110 MHz, Tilt: 0°



Freq: 2110 MHz, Tilt: 0°