



## LBV-4515LS-VTM

**Andrew® Antenna, 806–960 MHz, 45° horizontal beamwidth, RET compatible variable electrical tilt**

- Excellent azimuth roll-off, reducing sector-to-sector interference and soft hand-offs
- Excellent upper sidelobe suppression
- Low profile for ease of zoning approval

### Electrical Specifications

Frequency Band, MHz	806–896	870–960
Gain, dBi	16.3	16.8
Beamwidth, Horizontal, degrees	45	42
Beamwidth, Vertical, degrees	17.6	16.9
Beam Tilt, degrees	0–15	0–15
USLS (First Lobe), dB	20	20
Front-to-Back Ratio at 180°, dB	37	40
VSWR   Return Loss, dB	1.4   15.6	1.4   15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300
Polarization	Vertical	Vertical
Impedance	50 ohm	50 ohm

### Electrical Specifications, BASTA\*

Frequency Band, MHz	806–896	870–960
Gain by all Beam Tilts, average, dBi	15.8	16.5
Gain by all Beam Tilts Tolerance, dB	±1	±0.5
	0 °   16.0	0 °   16.6
Gain by Beam Tilt, average, dBi	8 °   15.9	8 °   16.6
	15 °   15.4	15 °   16.1
Beamwidth, Horizontal Tolerance, degrees	±2.9	±2.4
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7
USLS, beampeak to 20° above beampeak, dB	22	22

\* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

### General Specifications

Antenna Brand	Andrew®
Antenna Type	Directed Dipole™
Band	Single band
Brand	Teletilt®
Operating Frequency Band	806 – 960 MHz
Performance Note	Outdoor usage

### Mechanical Specifications

Color	Light gray
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Lightning Protection	dc Ground
Radiator Material	Aluminum
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	1
Wind Loading, maximum	412.0 N @ 150 km/h 92.6 lbf @ 150 km/h
Wind Speed, maximum	201 km/h   125 mph

## Dimensions

Depth	214.0 mm   8.4 in
Length	1241.0 mm   48.9 in
Width	375.0 mm   14.8 in
Net Weight	8.9 kg   19.5 lb

## Remote Electrical Tilt (RET) Information

RET System	Teletilt®
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## Packed Dimensions

Depth	372.0 mm   14.6 in
Length	1679.0 mm   66.1 in
Width	541.0 mm   21.3 in
Shipping Weight	21.8 kg   48.1 lb

## Regulatory Compliance/Certifications

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



## Included Products

DB380 — Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas. Includes 2 clamp sets and double nuts.

DB5083 — Downtilt Mounting Kit for 2.4"-4.5" (60 - 115 mm) OD round members. Includes a heavy-duty, galvanized steel downtilt mounting bracket assembly and associated hardware. This kit is compatible with the DB380 pipe mount kit for panel antennas that are equipped with two mounting brackets.

## \* Footnotes

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## Performance Note

Severe environmental conditions may degrade optimum performance