#### 2-port sector antenna, 2x 1710-2690 MHz, 65° HPBW, RET compatible

- Provides a future-ready antenna solution with flexibility to reassign antenna, for example GSM 1800 service to 2.6GHz LTE at a later date
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- RF technology flexible—suitable for LTE, UMTS, CDMA, GSM, AWS, WiMAX, and other applications from 1.7–2.7 GHz
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment

#### General Specifications

Antenna Type Sector

Band Single band
Color Light gray

**Grounding Type** RF connector inner conductor and body grounded to reflector and mounting bracket

Performance Note Outdoor usage
RF Connector Interface 7-16 DIN Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 2 RF Connector Quantity, total 2

#### **Dimensions**

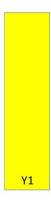
 Width
 170 mm | 6.693 in

 Length
 1390 mm | 54.724 in

 Depth
 105 mm | 4.134 in

### Array Layout





Array	Freq (MHz)	Conns		
Y1	1710-2690	1-2		

Bottom

(Sizes of colored boxes are not true depictions of array sizes)

## **Electrical Specifications**

**Operating Frequency Band** 

1710 - 2690 MHz

# **Electrical Specifications**

Frequency Band, MHz	1710–1880	1850–1990	1920–2170	2300–2500	2500–2690
Gain, dBi	17.3	17.4	18.2	18.4	18.7
Beamwidth, Horizontal, degrees	67.7	66	65	61.3	59.6
Beamwidth, Vertical, degrees	6.8	6.4	6.1	5.4	5
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	17	17	17	20	20
Front-to-Back Ratio at 180°, dB	30	30	30	32	29

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CPR at Boresight, dB	17	19	20	21	17
CPR at Sector, dB	14	12	11	10	9
Isolation, Cross Polarization, dB	30	30	30	30	30
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	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	300	300

## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2170	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	17.2	17.2	17.7	18.3	18.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.7	±0.2	±0.4
Gain by Beam Tilt, average, dBi	0 °   17.1 5 °   17.2 10 °   16.9	0 °   17.2 5 °   17.3 10 °   16.9	0 °   17.7 5 °   17.8 10 °   17.4	0 °   18.1 5 °   18.4 10 °   18.1	0 °   18.6 5 °   18.7 10 °   18.1
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.3	±1.9	±2.2	±1.9
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.4	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	18	17	17	21	20
Front-to-Back Total Power at 180° ± 30°, dB	27	27	27	28	26
CPR at Boresight, dB	17	19	20	21	17
CPR at Sector, dB	14	12	11	10	9

### Material Specifications

Radiator MaterialLow loss circuit boardRadome MaterialPVC, UV resistant

#### Mechanical Specifications

 Wind Loading at Velocity, frontal
 273.0 N @ 150 km/h | 62.5 lbf @ 150 km/h

 Wind Loading at Velocity, lateral
 111.0 N @ 150 km/h | 25.0 lbf @ 150 km/h

 Wind Speed, maximum
 241 km/h | 149.75 mph

## Packaging and Weights

**Width, packed** 270 mm | 10.63 in

COMMSC PE°

**Depth, packed** 208 mm | 8.189 in

**Length, packed** 1696 mm | 66.772 in

Net Weight, without mounting kit 6 kg | 13.228 lb

**Weight, gross** 14.6 kg | 32.187 lb

#### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant



#### Included Products

**DB390** — Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.

DB5098E — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

#### \* Footnotes

**Performance Note**Severe environmental conditions may degrade optimum performance



## DB390



Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.

#### General Specifications

ApplicationOutdoorColorSilver

#### **Dimensions**

Compatible Diameter, maximum 114.3 mm | 4.5 in Compatible Diameter, minimum 61 mm | 2.402 in

Material Specifications

Material Type Galvanized steel

#### Packaging and Weights

Included Brackets | Hardware

Packaging quantity

#### Regulatory Compliance/Certifications

Agency Classification

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



## DB5098E



Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

### General Specifications

ApplicationOutdoorColorSilver

**Dimensions** 

Compatible Diameter, maximum 114.3 mm | 4.5 in Compatible Diameter, minimum 61 mm | 2.402 in

Material Specifications

Material Type Galvanized steel

#### Packaging and Weights

Included Brackets | Hardware

Packaging quantity

#### Regulatory Compliance/Certifications

#### Agency Classification

CE Compliant with the relevant CE product directives

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant



