

# SIW 5015

2400 - 2700 MHz ISM/MMDS antenna

## Features

- ❑ Small size
- ❑ Aesthetically pleasing
- ❑ Ideal for 60° coverage area
- ❑ High return loss
- ❑ Upper side-lobe suppression
- ❑ High front-to-back ratio
- ❑ Outstanding performance over the entire band (2400 - 2700 MHz)
- ❑ Rugged design
- ❑ Fits six sector base station brackets



## Electrical specifications

Frequency range:	<b>2400-2700 MHz</b>
Impedance:	<b>50 ohm</b>
Connector type:	<b>N-female</b>
Return loss:	<b>18 dB</b>
Polarization:	<b>Vertical</b>
Gain:	<b>16 dBi</b>
Front-to-back ratio:	<b>30 dB</b>
Upper side-lobe suppression:	<b>20 dB</b>

Power rating:	<b>50 W</b>
H-plane (-3 dB point):	<b>50°</b>
V-plane (-3 dB point):	<b>14 - 18°</b>
Lightning protection:	<b>DC grounded</b>

## Mechanical specifications

Overall height:	<b>17 in</b>	<b>[432 mm]</b>
Width:	<b>7.25 in</b>	<b>[184 mm]</b>
Depth:	<b>4.5 in</b>	<b>[114 mm]</b>
Weight (excluding brackets):	<b>5 lbs</b>	<b>[2.27 Kg]</b>
Wind load measured up to:	<b>150 mph</b>	<b>[240 Km/h]</b>
Wind area (side of antenna):	<b>0.86 sq. ft.</b>	<b>[0.08 sq.m]</b>
Lateral thrust At 113 mph/ 180Km/h (worst case):	<b>44 lbs</b>	<b>[195 N]</b>

## Materials

Radiating Elements:	<b>Ceramic PCB</b>
Transformer (Power distribution)	<b>Ceramic PCB</b>
Radome:	<b>Grey PVC</b>

*The SIW 5015 is made in the U.S.A.*