

## Details

1850-1990 MHz

The TA-1850-2 is a 12 dBi omnidirectional antenna consisting of center fed collinear dipoles in a UV stabilized fiberglass radome. The antenna is designed for severe weather conditions and is at DC ground to aid in lightning protection. Due to the very narrow elevation beamwidth, TIL-TEK recommends that this antenna be used on stable platforms and where other options are not practical.

A 2° downtilt inverted antenna option is available which further improves network performance at congested cell towers. Order as TA-1850-2-T2-INV.

### Electrical Specifications

<b>Freq Range:</b>	1850-1990 MHz
<b>Gain:</b>	12 dBi
<b>VSWR:</b>	1.5:1 max.
<b>Pol:</b>	vertical
<b>Power:</b>	200 watts
<b>H Plane BW:</b>	360 degrees
<b>E Plane BW:</b>	4 degrees
<b>Electrical Downtilt:</b>	0, 2 degrees
<b>X Pol:</b>	20 dB min.
<b>Imp:</b>	50 ohms nominal
<b>Termination:</b>	N female (7/16 DIN optional)

### Mechanical Specifications

<b>Diameter:</b>	2.25 in. (57 mm)
<b>Length:</b>	100.5 in. (2553 mm)
<b>Weight:</b>	20 lb. (9.1 kg)
<b>Rated Wind Vel:</b>	125 mph (200 km/h)
<b>Hor Thrust:</b>	65 lb. (29.5 kg)
<b>Mounting Pipe:</b>	1.75 - 4.0 in. (44.5 - 102 mm)

### Material Specifications

<b>Radiating Elements:</b>	Copper
<b>Radome:</b>	Gray UV stabilized fiberglass
<b>Clamps:</b>	HDG steel



## Antenna Patterns

