



**SL1-1**

Sidemount FM Dipoles

SL1 Series

These vertically polarized antennas for FM broadcasting applications are intended for use where low wind loadings are required. They are designed to be sidemounted to a tower leg or pole and optional mounting brackets are available for this purpose.

The SL1 series is intended for low power applications, with a maximum of 500W input power. These versions cover the full FM band without adjustment, although factory optimization on the frequencies of operation is possible.

SL1 antennas are constructed of heavy gauge, corrosion resistant aluminium tubing (6000 series) and are extremely robust whilst having very low weights and wind loads. A variety of mounting clamps are available to facilitate mounting to most tubular or lattice structures.

Multiple element arrays are supplied as a complete package including power dividers and distribution cables. An optional input tuner ensures optimum VSWR performance after installation as it enables the effects of tower steelwork to be eliminated. Beam tilt and null fill can be provided on request.



**FEATURES / BENEFITS**

- Rugged construction for maximum corrosion protection
- Broadband operation
- Multichannel use if required
- Low windload to minimize tower or mast costs
- Vertical polarization.

**Technical features**

**STRUCTURE**

<b>Product Line</b>		Antenna TV
<b>Product Type</b>		Band II (VHF) FM Sidemount Antennas

**ELECTRICAL SPECIFICATIONS**

<b>Frequency Range</b>	MHz	87.5 - 108
<b>Polarization</b>		Vertical
<b>Nominal Gain (Mid-band)</b>	dBd	0
<b>Return Loss</b>	dB	Typically 17 over 87.5 - 108MHZ band
<b>Power Rating</b>	kW	5
<b>Impedance (unbalanced)</b>	$\Omega$	50

**MECHANICAL SPECIFICATIONS**

<b>Input Connector</b>		N type
<b>Dimensions (Height or Length)</b>	cm (in)	130 (51)
<b>Effective Area Front (full antenna) No Ice</b>	m <sup>2</sup> (ft <sup>2</sup> )	0.2 (2.15)
<b>Effective Area Front (full antenna) with 12.5mm(0.5") Radial Ice</b>	m <sup>2</sup> (ft <sup>2</sup> )	0.2 (2.15)
<b>Weight</b>	kg (lb)	3.5 (7.7)

**PACKAGING INFORMATION**

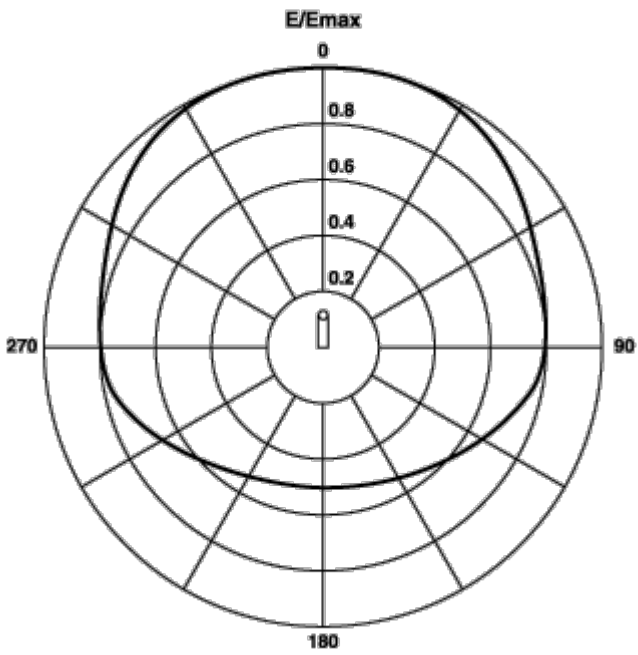
<b>Shipping Weight, Kg (lb)</b>	kg (lb)	3.5 ( )
---------------------------------	---------	---------



SL1-1

Sidemount FM Dipoles

SL1 Series



Azimuth Radiation Pattern (Typical)

[External Document Links](#)

[Notes](#)