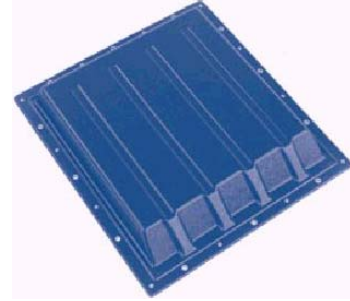


LP3 Low Profile Antennas 170-225 MHz



- Protected Antenna for Limited Height & High Vehicle Situations**
- Omnidirectional**
- Wide Bandwidth**
- Unity Gain**
- Field Tuning Not Required**
- High Impact ABS Cover**
- Suitable for High Pressure Vehicle Washing**



Type LP3 low profile antenna is designed for use on vehicles operating under severe height limitations such as buses, trains, trams, trucks etc. Radiation is omnidirectional and the antenna is vertically polarised. Gain is remarkable for an antenna of such low height. Type LP3 has unity gain over the transmit segment (5 MHz) of the frequency band. The antenna LP3 has no tuning devices at all and no adjustment is necessary. The radiating element is enclosed in a tough ABS moulding with an aluminium base plate. The moulding is ribbed for additional impact strength. Type LP3 is supplied as a fully assembled, sealed unit ready for fitting directly to the mounting surface.

ELECTRICAL SPECIFICATIONS	
Frequency Range:	170-225 MHz
Bandwidth	5MHz at 195 MHz
Gain (Rel. $\lambda/4$ antenna):	Unity
VSWR:	1.5:1 Typical
Polarisation	Vertical
E-Plane Beamwidth (-3dB)	As for $\lambda/4$ antenna
H-Plane Beamwidth (-3dB)	Circular within +/- 0.5dB (using groundplane $\lambda/2$ square)
Power Rating:	100 Watts
Impedance:	50 ohms
Lightning Protection:	DC ground
Feeder Tail:	1m URM76 (other lengths available)
MECHANICAL SPECIFICATIONS	
Termination:	N male (Other Terminations Avail:)
Dimensions (LxWxH)	470mm x 430mm x 50mm
Weight:	2.5 kg
Baseplate Fixing:	Screw or Rivet
MATERIALS	
Cover	Black ABS, UV Stabilised
Baseplate	Aluminium (14swg)
STANDARD MODELS	
Frequency **	Model
Tx 193-198 MHz & Rx 201-206 MHz	LP3 - factory aligned to cover full 5MHz both Tx & Rx for Tx/Rx separation of 8MHz
Tx 194-199 MHz & Rx 202-207 MHz	LP3RL- factory aligned to cover full 5MHz both Tx & Rx for Tx/Rx separation of 8MHz

** For other frequencies contact Sigma Wireless Technologies.

Optimum performance is achieved when the antennas is fitted to a metallic groundplane or roof $\lambda/2$ square

LP3 Low Profile Antennas 170-225 MHz

