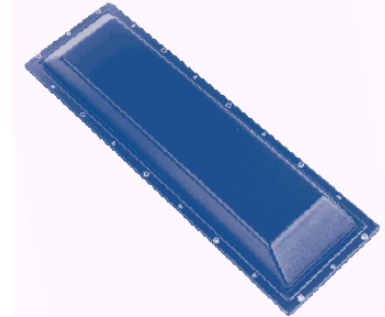


MHA Low Profile Antennas 68-174 MHz



Protected Antenna for Limited Height & High Vehicle Situations
Omnidirectional
Wide Bandwidth
High Impact ABS Cover
Suitable for High Pressure Vehicle Washing



Type MHA low profile vehicle 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. All versions are fitted with high stability trimmer capacitors for VSWR adjustment. The radiating element is enclosed in a tough ABS moulding with an aluminium base plate. Type MHA is supplied as a fully assembled, sealed unit ready for fitting directly to the mounting surface.

ELECTRICAL SPECIFICATIONS	
Frequency Range:	68-174 MHz
Bandwidth	200 kHz @ 80 MHz 0.7% at 150 MHz 1% at 165 MHz
Gain (Rel. $\lambda/4$ antenna):	-5dBd @ 80MHz -2dBd @ 120MHz Unity at 155 MHz upwards
VSWR:	1.5:1 Typically
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
Feeder Tail:	1m URM76 (other lengths available)
MECHANICAL SPECIFICATIONS	
Termination:	BNC Plug (Other Terminations Avail:)
Dimensions (LxWxH)	635mm x 190mm x 60mm
Weight:	1.1 kg
Baseplate Fixing:	Screw or Rivet
MATERIALS	
Cover	Black ABS, UV Stabilised
Baseplate	Aluminium (14swg)
STANDARD MODELS	
Frequency	Model
68-90 MHz	MHA80s fitted with single trimmer
68-90MHz	MHA80T- fitted with two trimmers for separate adjustment of Tx & Rx frequencies when Tx/Rx separation is greater than 9MHz
100-125 MHz	MHA120- fitted with single trimmer
140-156MHz	MHA150 fitted with single trimmer
156-174MHz	MHA170 fitted with single trimmer

** 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

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