

VHF Adjustable Ground Plane Antennas

118 - 136 MHz

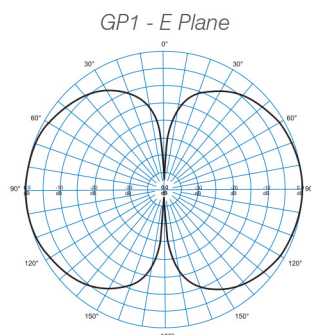
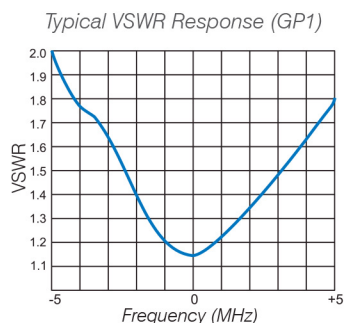
GP-118136

The GP-118136 is a omnidirectional unity gain adjustable ground plane antenna ideal for local area coverage when a high gain antenna is not required or justified. The broad vertical beamwidth offers excellent null fill for consistent signal coverage. The GP-118136 antenna is easily tuned in the field by adjusting the position of the ground plane elements.

Electrically, the GP-118136 antenna is a quarter wave radiating element with the radials acting as a counterpoise. These radials are of one-piece construction and utilise a unique single bolt clamping design. The antenna is DC grounded for superior lightning protection and the reduction of precipitation static noise.

Features:

- Easily field tuned by adjusting the position of the radials
- Lightweight and easy to mount
- Broad vertical beamwidth for excellent null fill
- Compact - Shipped disassembled for ease of handling



Electrical

Model Number	GP1	GP3	GP2
Nominal Gain <i>dBi (dBd)</i>	2 (Unity)		
Frequency <i>MHz</i>	70 - 85	118 - 136	148 - 175
Tuned Bandwidth <i>MHz</i>	5	10	15
VSWR (Return Loss)	<1.5 :1 (14dB)		
Nominal Impedance Ω	50		
Vertical Beamwidth°	110	75	
Horizontal Beamwidth°	Omni +/-0.5dB		
Input Power <i>W</i>	200		

Mechanical

Model Number	GP1	GP3	GP2
Construction	Heavy duty aluminium radiating element encased in a PVC radome		
Length m	1.8	1.5	1.3
Weight kg	3.0	3.0	2.0
Termination	N female with 0.5m RG213 cable tail		
Mounting Area	500mm x 40mm diam. aluminium		
Suggested Clamps	2 x UB1 or 2 x UC1		
Projected Area cm ²	No ice	1752	1246
	With ice	3349	2160
Wind Load (Thrust) @ 160km/h N	208	148	117
Torque @160 km/h Nm	67	33	11

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