

Section 2

BROADCAST ANTENNAS

Updated 14 March 2012

MGP-6850N Grid Pack Point-to-Point STL Link Antenna

Frequency
820 – 9600 MHz

Bandwidth
Full Band



The MGP-6850N grid pack antenna provides broad bandwidth across the full UHF frequency range 820 to 960 MHz at better than 1.5:1 VSWR with 22.2 dBi gain at middle of the band. Other key features of this grid pack are :

- The highly directional narrow radiation pattern with minimal side lobes makes this grid pack a perfect choice for use as a point-to-point STL broadcast studio to transmitter link.
- High 28 dB front-to-back ratio, far superior to a conventional Yagi.
- Can be mounted either horizontal or vertical as your application requires.
- The high quality, rugged and durable semi-welded aluminium construction ensures long term reliability and service.
- Easy to transport and install.
- Occupies minimal tower space.
- Designed and manufactured in Australia.
- **ACMA** approved antenna, ID No. 13459



An N-female connector rated for up to 100 watts input power is located at the base of the end launcher.

The antenna is supplied in kit form and requires assembly. This allows for shipping at a low cost with the added advantage of reducing the likelihood of damage in transit.

The kit includes U-bolts for mounting the grid pack to a round mast between 75 mm and 115 mm in diameter.

SPECIFICATIONS	MGP-6850N
Construction	Aluminium with UV resistant black caps, stainless steel bolts and nuts
Frequency Range	UHF 820 to 960 MHz
Bandwidth	Full Band
Return Loss, VSWR	Better than -15 dB, less than 1.5:1 across the full bandwidth
Tuning	Factory
Gain	22.2 dBi mid-band
Max Input Power	100 Watts
Impedance	50 Ohms
DC Grounding	Yes
Polarisation	Mount Horizontal or Vertical as required
E-Plane	12°
H-Plane	10°
Front-to-Back Ratio	28 dB
Cross Polarisation Discrimination	>28 dB
Cable Tail	None
Connector	N-female located at base of the end launcher
Height	1.85 metres assembled
Width	1.8 metres assembled
Weight	19 kg
Projected Area	0.944 m ²
Wind Load 160 kph	114.3 kg, 1.12 kN
Mounting	U-Bolts are supplied to suit a round mast between 75 mm and 115 mm in diameter
WARRANTY	2 Years

Sample patterns at 848 MHz

