

MGP-4650N & MGP-4750N

Highly directional UHF mini grid-pack point-to-point STL link
UHF 570-670 MHz or UHF 710-790 MHz

The MGP series of UHF mini grid-packs provide an exceptionally broad bandwidth with a highly directional narrow radiation pattern with minimal side lobes.

This makes a grid-pack the best choice for use as a point-to-point STL broadcast studio to transmitter link.

Coaxial feeder cable, connectors and other installation accessories are all available separately.

| | MGP-4650N | MGP-4750N |
|-----------------------------|--|-------------------|
| Construction | Corrosion resistant aluminium rear screen and launcher | |
| Frequency range | 570-670 MHz - UHF | 710-790 MHz - UHF |
| Bandwidth | Full selected frequency range stated | |
| VSWR | <1.5:1 | |
| Tuning | Factory | |
| Gain - mid band | 14.8 dBi | 16.6 dBi |
| H Plane | 22° | 19° |
| E Plane | 23° | 22° |
| Front-to-back ratio | 18 dB | 20 dB |
| Maximum power | 100 Watts | |
| Impedance | 50 Ohms | |
| DC grounding | Yes | |
| Polarisation | Mount horizontal or vertical as required | |
| Cable | 400mm RU400 low loss - bottom exit of launcher | |
| Connector | N-type female jack fitted to cable tail | |
| Dish dimensions | 1.2 metres x 1.3 metres - assembled | |
| Weight | 12.5kg | |
| Projected area | 0.245m ² | |
| Wind load at 160kph | 29.673kg, 0.291kN | |
| Mounting hardware | 2 x U-bolts, 50-75mm capability - supplied | |
| Installation tools required | 10mm, 13mm and 19mm spanners for dish & bracket assembly | |
| Warranty | 2 Years | |

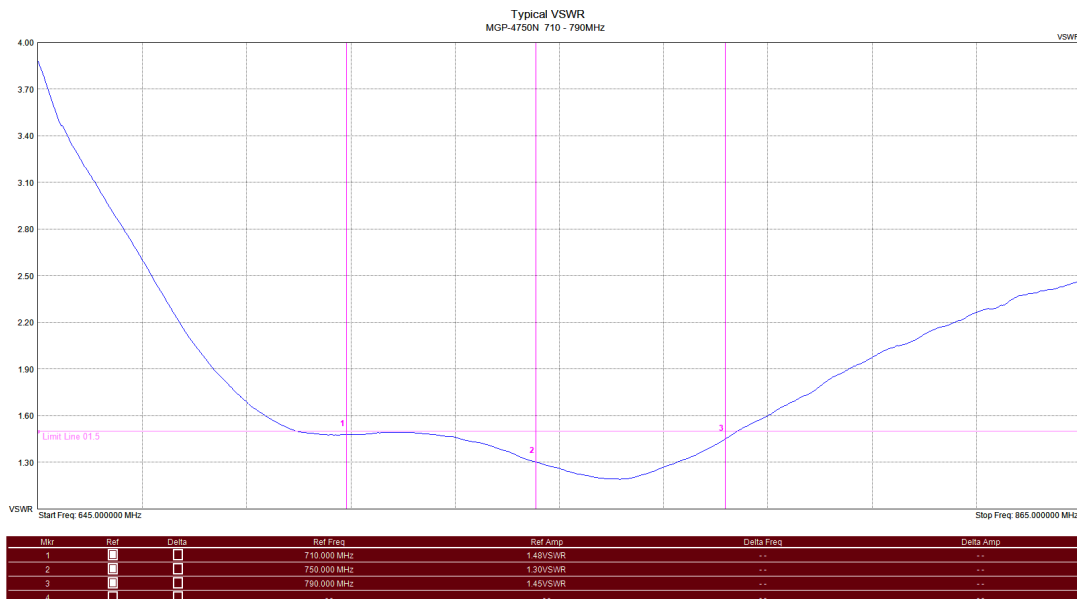
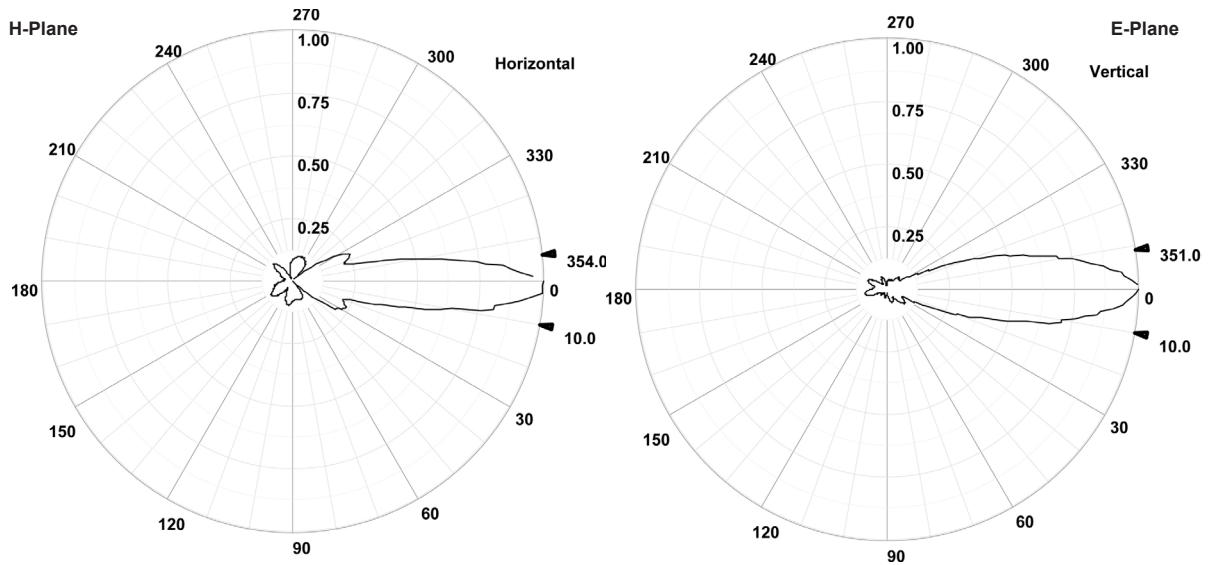


MGP-4850N Mount bracket with slotted mechanical tilt adjustment.



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Typical VSWR - MGP-4750N

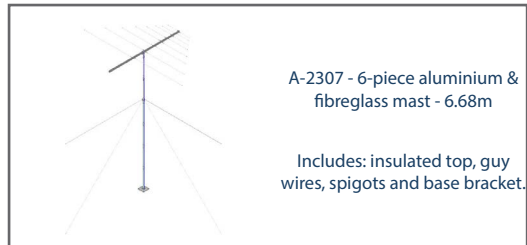
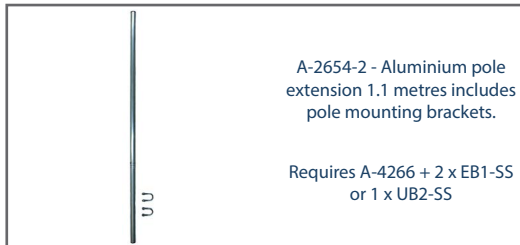
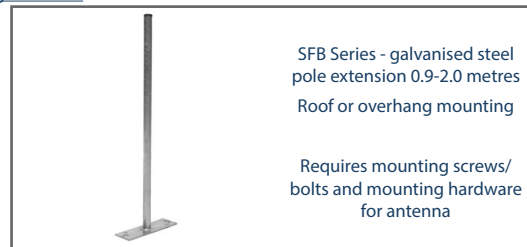


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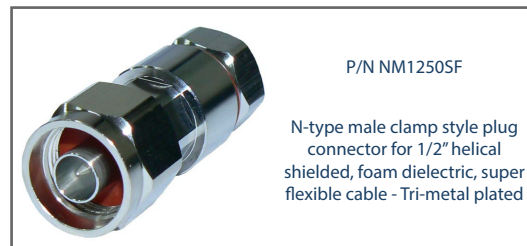
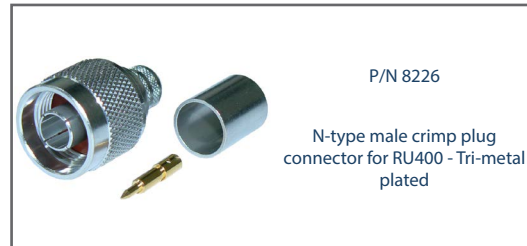
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Suitable mounting hardware



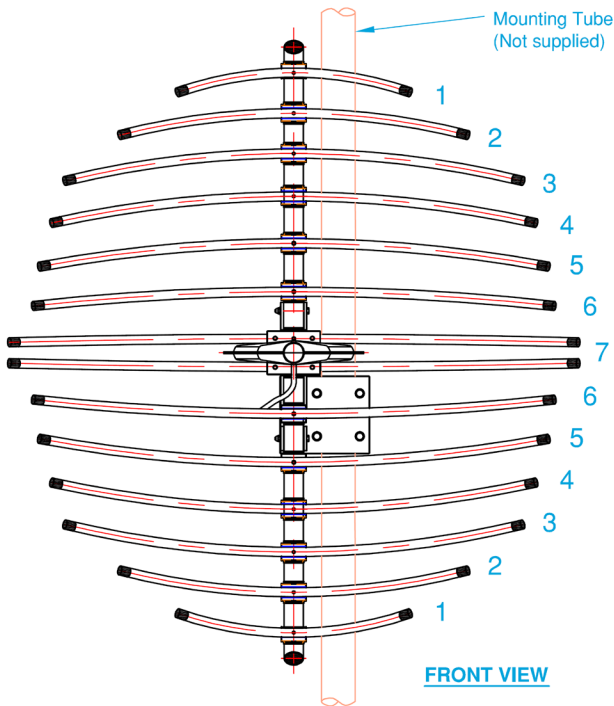
Suitable feeder coaxial cable and connector





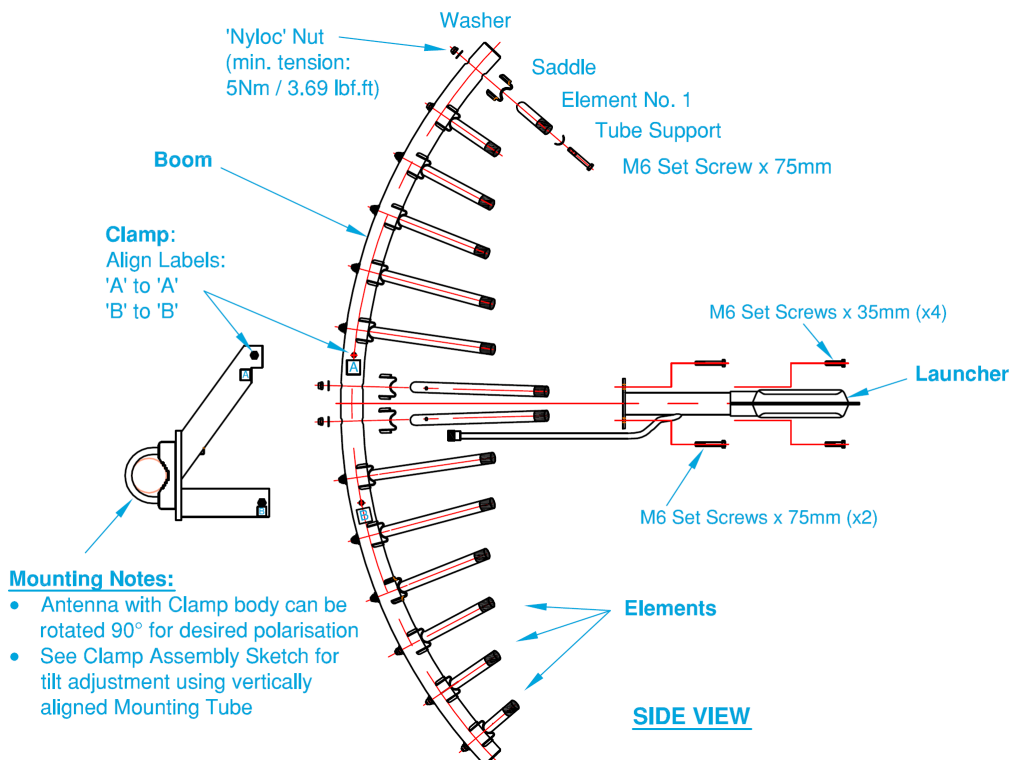
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Assembly:

1. Install Elements Nos.1 to 6 (x2) onto Boom - use supplied M6 x 75mm Set Screws through Tube Support, Element, Saddle then Boom. Fasten with Washer & Nyloc Nut.
 2. Install Launcher and Elements No. 7 (x2) - use M6 x 75mm Set Screws (x2) through centre holes of Launcher backplate, Elements No. 7, Saddles then Boom. Use M6 x 35mm (x4) through Launcher backplate then Elements No. 7. Fasten with Washer & Nyloc Nut.
 3. Install Clamp - Clamp Label 'A' must match with Label 'A' on Boom (ditto Label 'B') - use M8 x 65mm Set Screw. Fasten with Washer & Nyloc Nut. Use supplied U-bolt Spacers when fitting Antenna to small diameter mounting Tube (customer supplied).
- **NOTE:** Nut tension: minimum 5 Nm (3.69 lbf.ft)



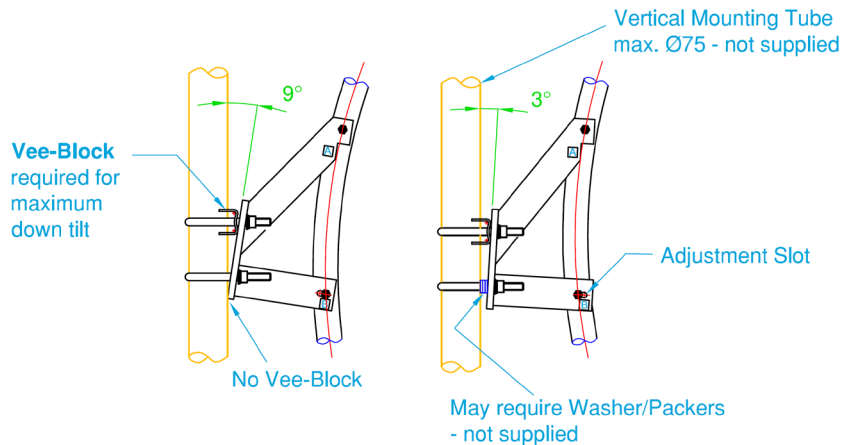
Mounting Notes:

- Antenna with Clamp body can be rotated 90° for desired polarisation
- See Clamp Assembly Sketch for tilt adjustment using vertically aligned Mounting Tube



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Tilt Adjustment Example for Clamp to Vertically Aligned Mount Tube

Mounting Notes:

- see Antenna Assembly Sketch for fitting of Clamp to Grid Pack Dish

- Antenna with Clamp body can be rotated 90° for desired polarisation
- U-bolts & V-blocks can be rotated 90° for mounting to horizontally or vertically aligned Mounting Tube
- For tilt adjustment with vertically aligned Mounting Tube; remove lower or higher Vee-Block & loosen 'Clamp to Antenna' Bolts to achieve desired tilt.
- Tighten Bolts to secure into position.

