

Dual Input UHF Dipole Stack Arrays

2-Stack or 4-Stack TX/RX applications dipole arrays

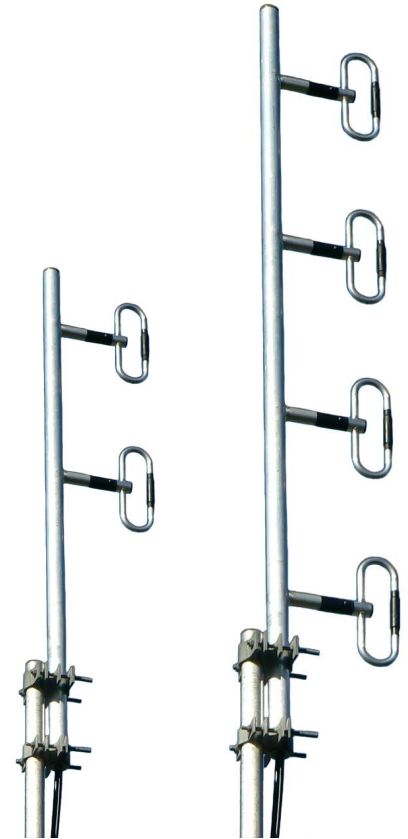
TE.T.RA/ L.M.R. / C.B.R.S. / UHF 400-520MHz



These UHF dipole stack arrays are available in 2 or 4 stack configurations depending on your gain requirements with 2 external cables at the base, allowing for separate receive and transmit applications within the UHF 400-520MHz. The dipoles can be phased together with an external phasing harness for a full TX or full RX capability, consult ZCG.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

| | S2B44-2CPH | S4B44-2CPH |
|----------------------------------|---|---|
| Construction | Welded corrosion resistant aluminium, or add -SS for 304 grade stainless steel and external feeder cables | |
| Dipoles | 2 | 4 |
| Frequency range | TE.T.RA / L.M.R. / C.B.R.S. / UHF 400-520MHz | |
| Bandwidth | Full frequency range | |
| VSWR | <1.5:1 | |
| Tuning | Factory | |
| Gain | 2.5dBd | 5.5dBd |
| Maximum power | 250 Watts per input | |
| Impedance - nominal | 50 Ohms | |
| DC grounding | Yes | |
| Polarisation | Vertical | |
| Front-to-back ratio | 3.0dB | |
| Passive IM 3rd order (2x20w) | < -120dBc | |
| H Plane | 156°± 5dB | 154°± 5dB |
| E Plane | 63° | 29° |
| Connector | N-type female fitted to dual exit cables | |
| Dimensions | 1.5m x 300mm x 48mm dia. | 2.5m x 300mm x 48mm dia. |
| Weight | 5.0kg in aluminium 6.0kg in stainless steel | 8.0kg in aluminium 11.0kg in stainless steel |
| Projected area | 0.150m ² | 0.248m ² |
| Wind load at 160kph | 18.6kg, 0.183kN | 30.0kg, 0.294kN |
| Mounting hardware order separate | Parallel: 2 x UAM180L or UAM180UNI Right-angle: 2 x UAM90L or UAM90UNI | |



Dual cable and terminations

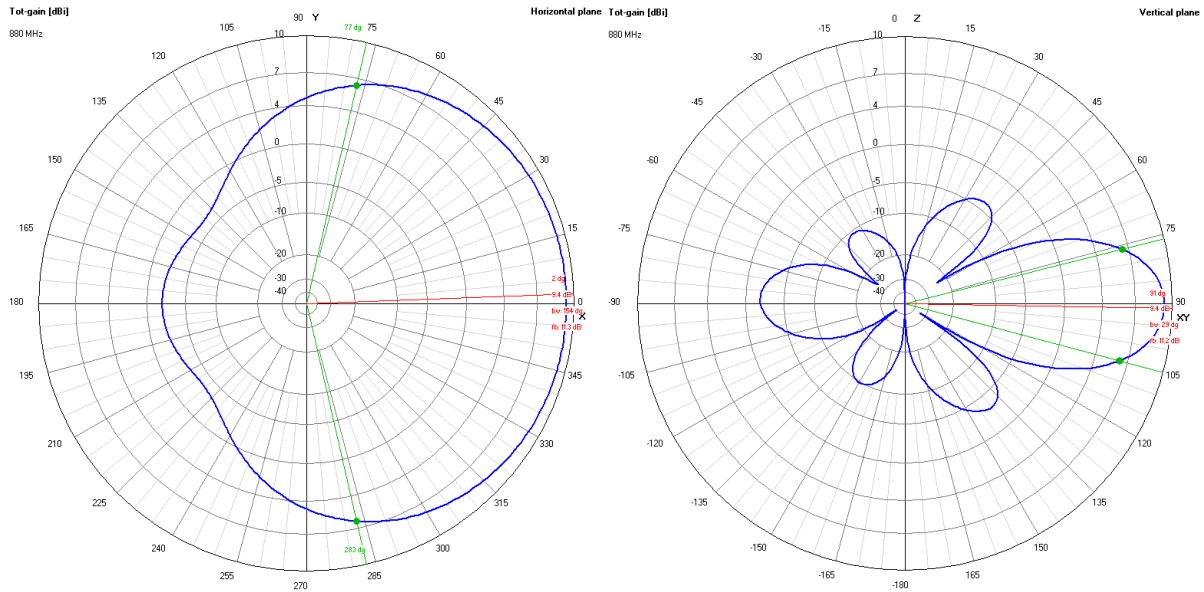
Radiation Patterns and typical VSWR performance on following page.



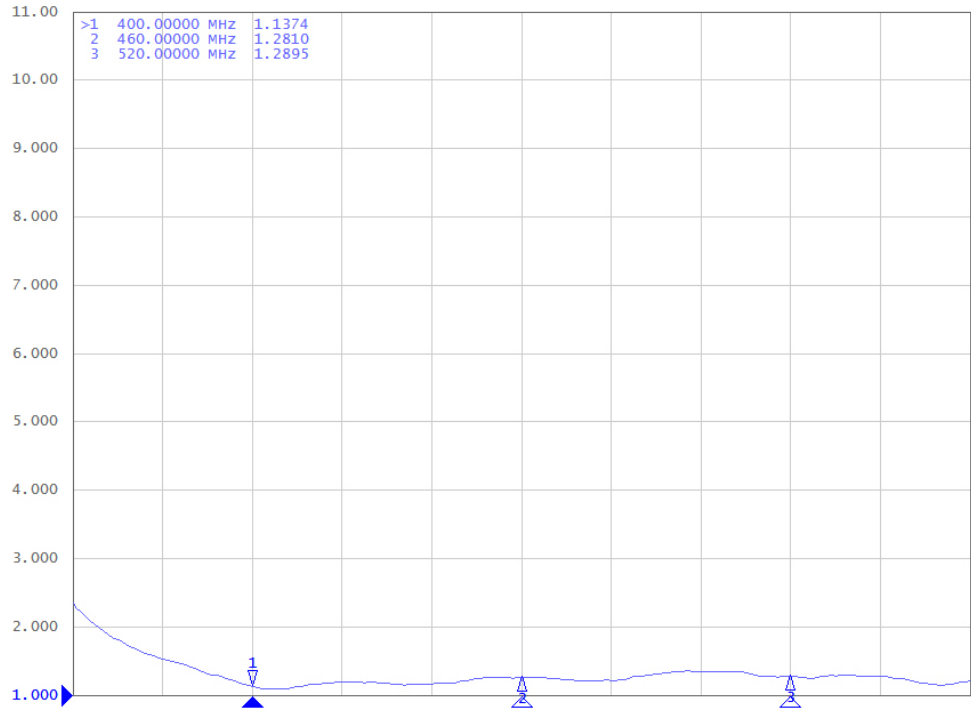
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► **Tip!** S11 SWR 1.000 / Ref 1.000 [F1 M]



Typical VSWR Performance



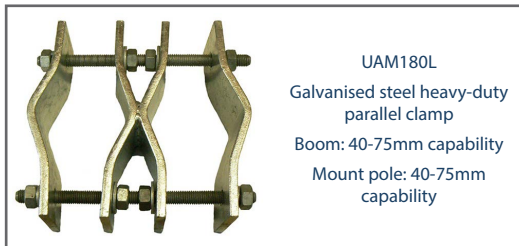
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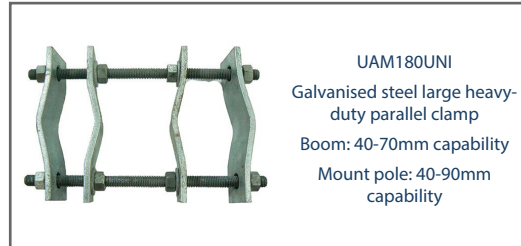
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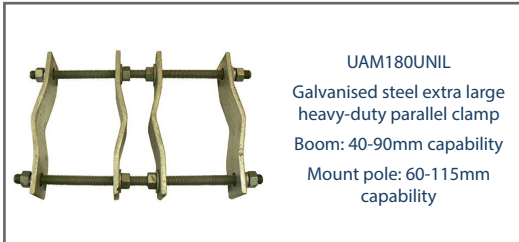
Suitable mounting hardware



UAM180L
Galvanised steel heavy-duty parallel clamp
Boom: 40-75mm capability
Mount pole: 40-75mm capability



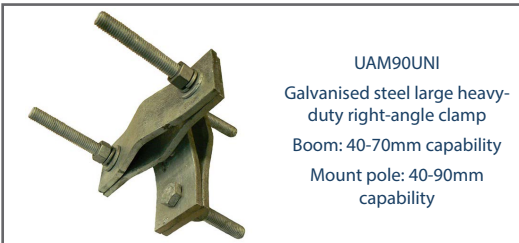
UAM180UNI
Galvanised steel large heavy-duty parallel clamp
Boom: 40-70mm capability
Mount pole: 40-90mm capability



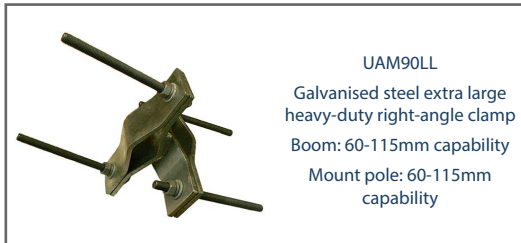
UAM180UNIL
Galvanised steel extra large heavy-duty parallel clamp
Boom: 40-90mm capability
Mount pole: 60-115mm capability



UAM90L
Galvanised steel heavy-duty right-angle clamp
Boom: 40-75mm capability
Mount pole: 40-75mm capability



UAM90UNI
Galvanised steel large heavy-duty right-angle clamp
Boom: 40-70mm capability
Mount pole: 40-90mm capability



UAM90LL
Galvanised steel extra large heavy-duty right-angle clamp
Boom: 60-115mm capability
Mount pole: 60-115mm capability

Suitable feeder coaxial cable



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(* times microwave)
P/N 7890

Available in 100m ,300m or 500m rolls



1/2" super flexible helical shielded, foam dielectric coaxial cable
P/N ZCG1250SF

Available in per metre, or 500m rolls



1/2" corrugated shielding, foam dielectric coaxial cable
P/N ZCG1250

Available in per metre, or 500m rolls



7/8" corrugated shielded, foam dielectric coaxial cable
P/N ZCG7850

Available in per metre, or 500m rolls