



## TV6-5270-MP series

### High gain 4-stack Digital TV stacked dipole binary array

#### UHF 520-700 MHz



The TV6-5270-MP series of medium power, broadband UHF DTV 4-stack dipole binary array antennas are designed and manufactured for wide band vertically polarised UHF DTV transmission where high gain is required.

To achieve even higher transmit power and gain, these dipole arrays can be mounted in tandem using an additional external power divider.

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

	TV6-5270-A-MP	TV6-5270-B-MP	TV6-5270-Scaled-MP
Construction	Fully-welded 304 grade stainless steel body, dipoles, internal power divider and external low P.I.M., tri-metal plated termination		
Dipoles in array	4		
Frequency range	520-650 MHz Ch 27-43 Band IV & V	590-700 MHz Ch 37-51 Band V	520-820 MHz <small>Can be scaled for 700-820 MHz for South Pacific Nation UHF TV requirements</small>
Bandwidth	Full frequency range stated		Specify 105 MHz
Tuning	Factory		
VSWR	<1.2:1 across specified bandwidth		
Gain - nominal	7.5 dBd		
Front-to-back ratio	11 dBd - for increased F-B please see RS rear screen addition		
Polarisation	Vertical		
Maximum power	500 Watts		
Impedance	50 Ohms		
DC grounding	Yes		
E Plane	16°		
H Plane	199°		
Connector	Low P.I.M. 7/16" DIN female in base of mount section <u>N-type female terminated, 2kW models available</u>		
Dimensions	Maximum height: 2.0 metres; Mount section dia: 50.8mm		
Weight	9.5kg - excludes mounting hardware		
Projected area	0.123m <sup>2</sup>		
Wind load at 160kph	15kg, 0.146kN		
Mounting hardware	2 x UAM180L parallel or 2 x UAM90L right-angle - order separate		
Warranty	2 Years		

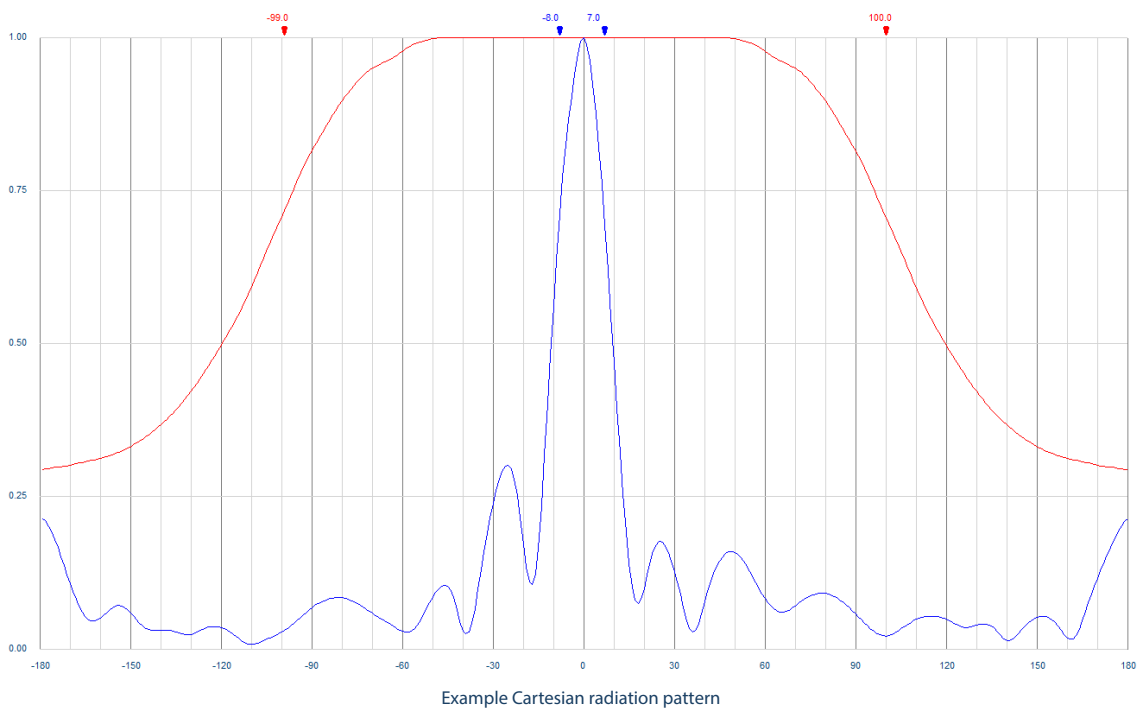
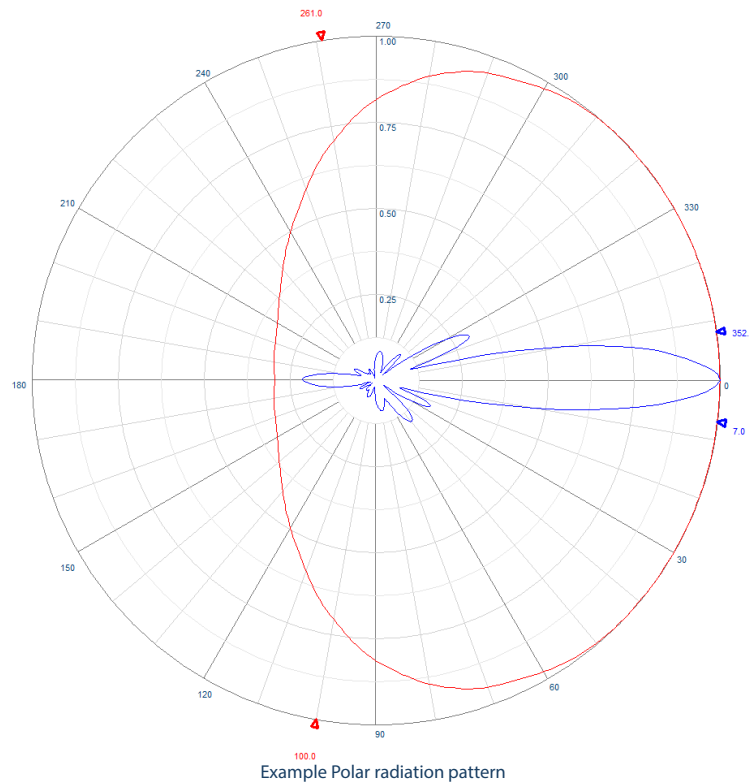


7/16" DIN female at base of antenna



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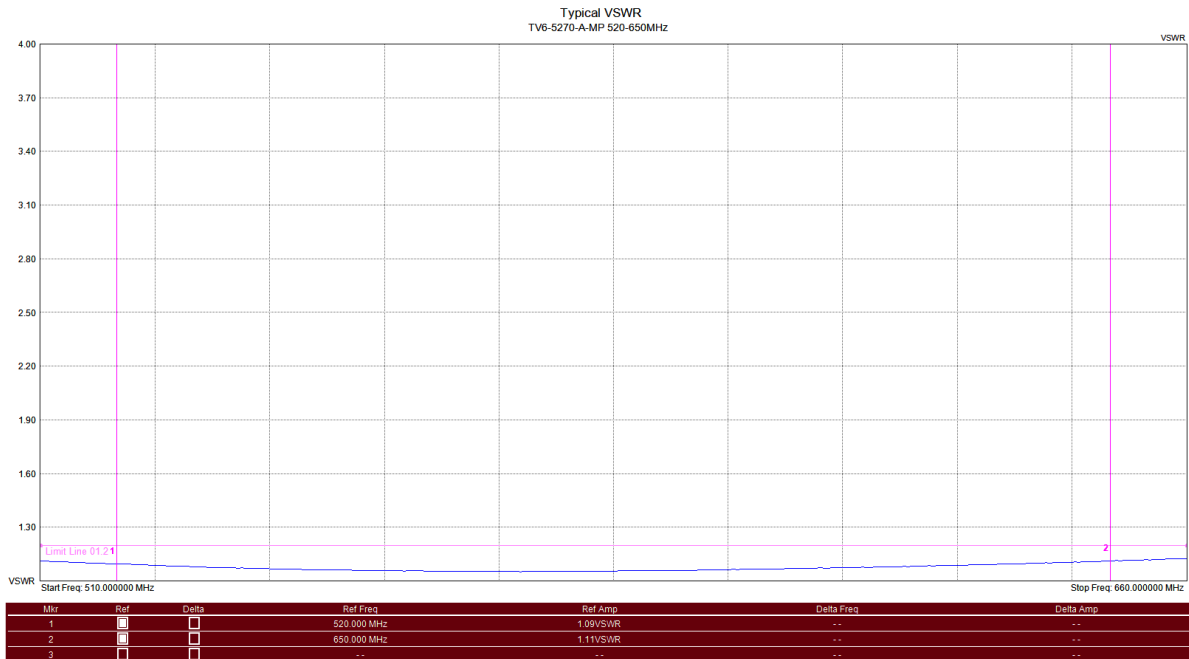




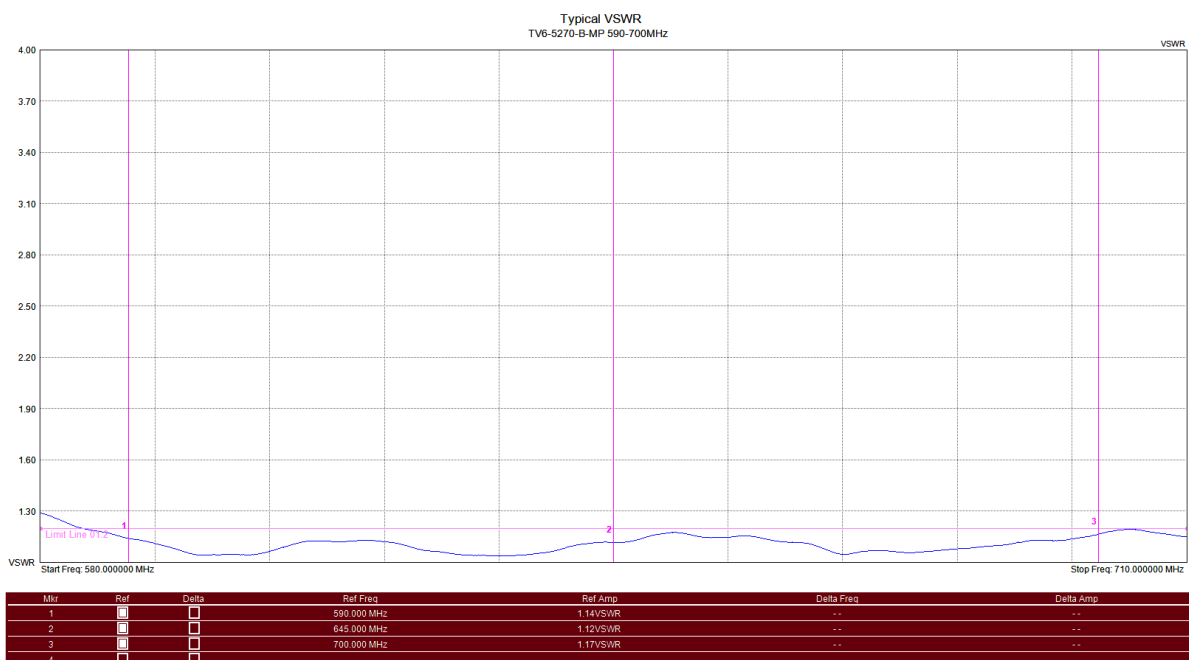
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Typical VSWR - TV6-5270-A-MP



Typical VSWR - TV6-5270-B-MP

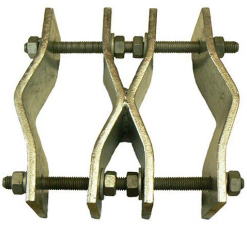
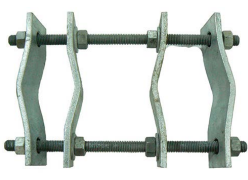
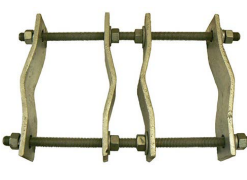
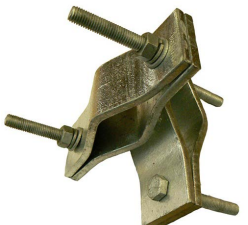




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### Suitable mounting hardware

 <p>UAM180L - requires 2 Galvanised steel parallel clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>	 <p>UAM180UNI - requires 2 Galvanised steel large parallel clamp Boom: 40-70mm capability Mount pole: 40-90mm capability</p>
 <p>UAM180UNIL - requires 2 Galvanised steel extra large parallel clamp Boom: 40-90mm capability Mount pole: 60-115mm capability</p>	 <p>UAM90L - requires 2 Galvanised steel right-angle clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>
 <p>UAM90UNI - requires 2 Galvanised steel large right-angle clamp Boom: 40-70mm capability Mount pole: 40-90mm capability</p>	 <p>UAM90LL - requires 2 Galvanised steel extra large right-angle clamp Boom: 60-115mm capability Mount pole: 60-115mm capability</p>

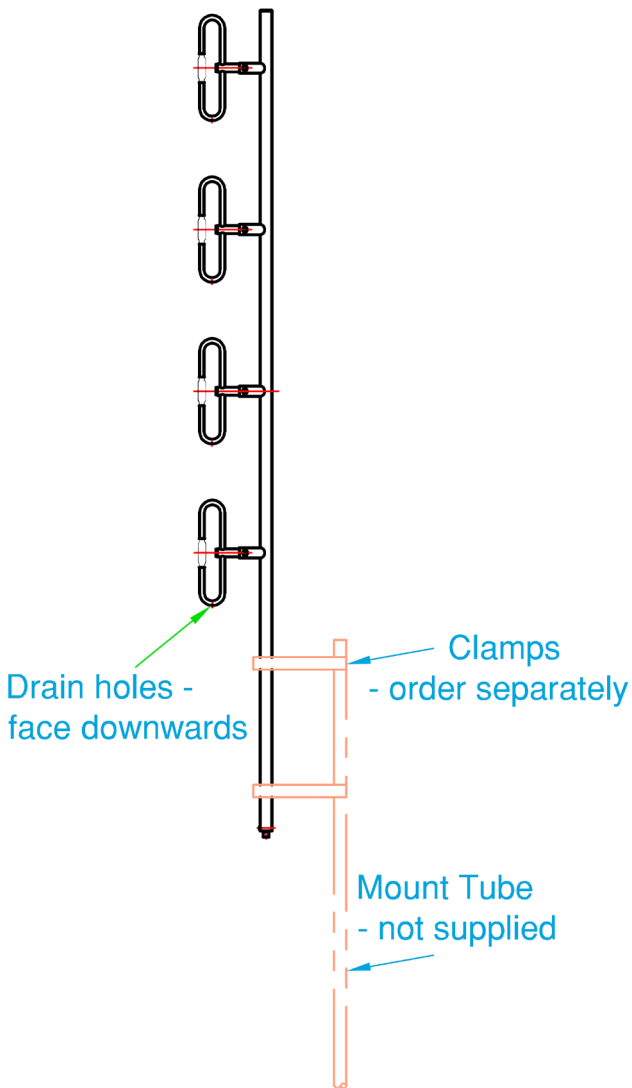
### Suitable feeder coaxial cable and connectors

 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>7/16" DIN male clamp connector for 1/2" super flexible, helical shielded coaxial cable</p> <p>P/N 716DINM1250SF</p> <p>Tri-metal plated, Low PIM</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>7/16" DIN male clamp connector for 1/2" flexible, corrugated shielded coaxial cable</p> <p>P/N 716DINM1250</p> <p>Tri-metal plated, Low PIM</p>
 <p>7/8" corrugated shielding, foam dielectric coaxial cable P/N ZCG7850</p> <p>also available in Air-dielectric Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>7/16" DIN male clamp connector for 7/8" flexible, corrugated shielded coaxial cable</p> <p>P/N 716DINM7850</p> <p>Tri-metal plated, Low PIM</p>

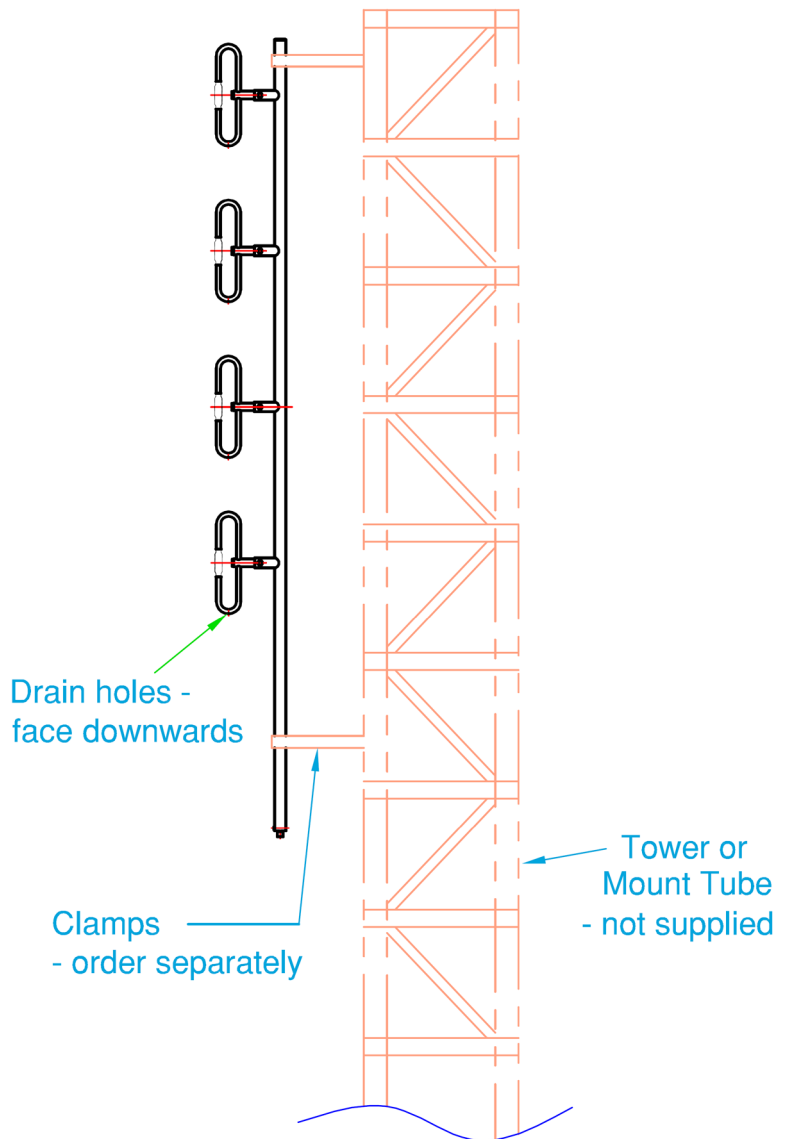


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TOP MOUNTING



SIDE MOUNTING