

TV6-5270 series

High gain 4-stack UHF dipole array

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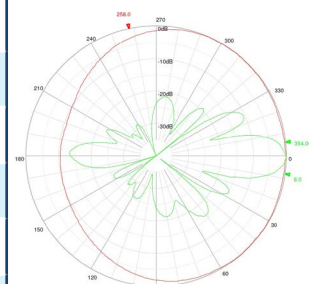


These broadband UHF TV 4-stack dipole arrays are designed and manufactured for wide band vertically polarised UHF TV transmission where high gain is required.

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

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

Specifications	TV6-5270-A	TV6-5270-B	TV6-5270-Scaled
Construction	Fully-welded 304 grade stainless steel body, dipoles and tri-metal plated termination		
Dipoles in array	4		
Frequency range	520-640MHz Ch 27-43 Band IV & V	590-700MHz Ch 38-52 Band V	520-700MHz specify 105MHz
Bandwidth	Set frequency allocations or specify 105MHz or 15 channels		
Tuning	Factory		
VSWR	<1.2:1 across specified bandwidth		
Gain - nominal	7.5dBd		
Front-to-back ratio	11 dBd		
Polarisation	Vertical		
Maximum power	200 Watts - for 500W model please consult ZCG		
Impedance	50 Ohms		
DC grounding	Yes		
E Plane	16°		
Connector	N-type female in base of mount tube - 7/16" DIN available		
Height	2.0 metres		
Weight	8.0kg		
Projected area	0.123m ²		
Wind load at 160kph	15kg, 0.146kN		
Mounting hardware	2 x UAM180L parallel or 2 x UAM90L right-angle - order separate		
Warranty	2 Years		



TV6-5270-A Radiation Pattern

TV6-RS

UHF TV dipole array rear screen

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The TV6-RS stainless steel rear reflector screen can be fitted to any of our TV6-5270 dipole stack array series.

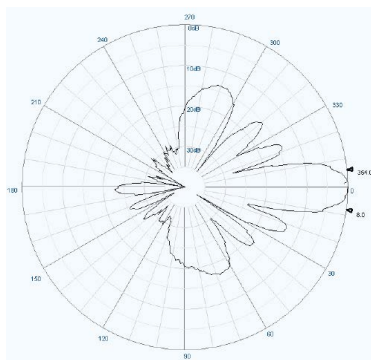
Fitting this screen will achieve a cardoid shaped restricted radiation pattern at the rear together with an increase in nominal forward gain.

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

Specifications	TV6-RS
Construction	Fully-welded 304 grade stainless steel
Stack array tuning	Not affected
Gain - nominal forward	10.5dBd
Front-to-back ratio	Better than -24 dB
E Plane	16°
Screen dimensions	1.316 metres x 329mm
Weight	11.0kg - array and screen
Projected area	0.25m ² - array and screen
Wind load at 160kph	30kg, 0.300kN - array and screen
Mounting hardware	Clamps to mount to dipole array - supplied

Sample radiation patterns

TV6-5270-B-RS
E-Plane



TV6-5270-B-RS
H-Plane

