

TV6-5270 Series

UHF TV Dipole 4-Stack Array

Page 1 of 2

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

Specifications	TV6-5270-A	TV6-5270-B	TV6-5270-Scaled
Construction	Stainless Steel (304 grade)		
Dipoles in Array	4	4	4
Frequency Range	520-640MHz (Ch 27-43)	590-700MHz (Ch 38-52)	520-700MHz (specify 105MHz)
Bandwidth	Specify any 15 consecutive Channels or 105MHz		
Tuning	Factory	Factory	Factory
Return Loss, VSWR	Better than -20dB, <1.2:1 across specified bandwidth		
Gain (nominal)	7.5dBd	7.5dBd	7.5dBd
Front-to-Back Ratio	11 dBd	11 dBd	11 dBd
Polarisation	Vertical	Vertical	Vertical
Maximum Power	200 Watts (for 500 Watts add -MP when ordering)		
Impedance	50 Ohms	50 Ohms	50 Ohms
DC Grounding	Yes	Yes	Yes
E Plane	16°	16°	16°
Connector (fitted)	N-female in base of mount tube (7/16" DIN for -MP version)		
Height	2 metres	2 metres	2 metres
Weight	8Kg	8Kg	8Kg
Projected Area	0.123m ²	0.123m ²	0.123m ²
Wind Load at 160kph	15Kg, 0.146kN	15Kg, 0.146kN	15Kg, 0.146kN
Mounting Accessories	2 x UAM180L (order separately)		
Warranty	2 Years	2 Years	2 Years



TV6-RS

UHF TV Array Rear Screen

Page 2 of 2

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	Stainless Steel (304 grade)
Stack Array Tuning	Not Affected
Gain (nominal forward)	10.5 dBd
Front-to-Back Ratio	Better than -24 dB
E Plane	16°
Screen Dimensions	1.316 metres x 329mm
Weight	11Kg (array and screen)
Projected Area	0.25m ² (array and screen)
Wind Load at 160kph	30Kg, 0.300kN (array and screen)
Mounting Accessories	Clamps to mount to dipole array (supplied)

Sample Radiation Patterns

