



ZUHP-75

Radome Enclosed 75 Ohm horizontally polarised UHF TV panel UHF Band IV & V 520-694 MHz



The ZUHP-75 is a 75 Ohm horizontal polarised broadband panel covering channels 27-51 within UHF TV band IV and V.

With the panel being an enclosed item, the radiating internals have minimal exposure to damage or moisture ingress.

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

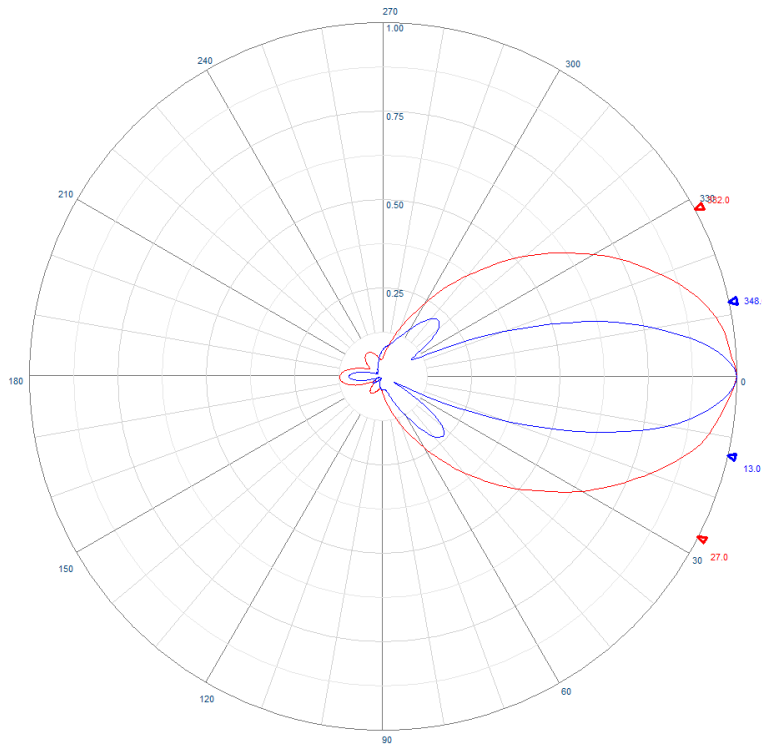
Construction	White fibreglass radome, aluminium back screen and external rear-mounted power divider
Frequency range	UHF TV 520-694 MHz - channel 27-51 within Band IV & V <i>ZCG can manufacture for UHF TV 694-820 MHz only, for south pacific locations, please request when ordering.</i>
Bandwidth	Full frequency range stated - 174 MHz <i>If UHF TV 694-820 MHz, bandwidth will be 126 MHz</i>
VSWR	<1.5:1
Tuning	Factory
Gain - nominal	10.5dBd
Polarisation	Horizontal
Front-to-back ratio	24 dB
Maximum power	200 Watts per bay
Impedance	75 Ohms - 50 Ohm model see ZUHP
H Plane	30°
E Plane	60°
DC grounding	Yes
Power divider input	BNC female - or specify 75 Ohm connector requirements
Panel dimensions	Height:1100mm, Width: 500mm, Depth: 250mm
Weight	11.25kg
Projected area	Front: 0.55m ² Side: 0.275m ²
Wind load at 160kph	Front: 66.622kg, 0.653kN Side: 33.311kg, 0.326kN
Mounting hardware	2 x stainless steel U-bolts, 50-60mm capability - supplied
Warranty	2 Years



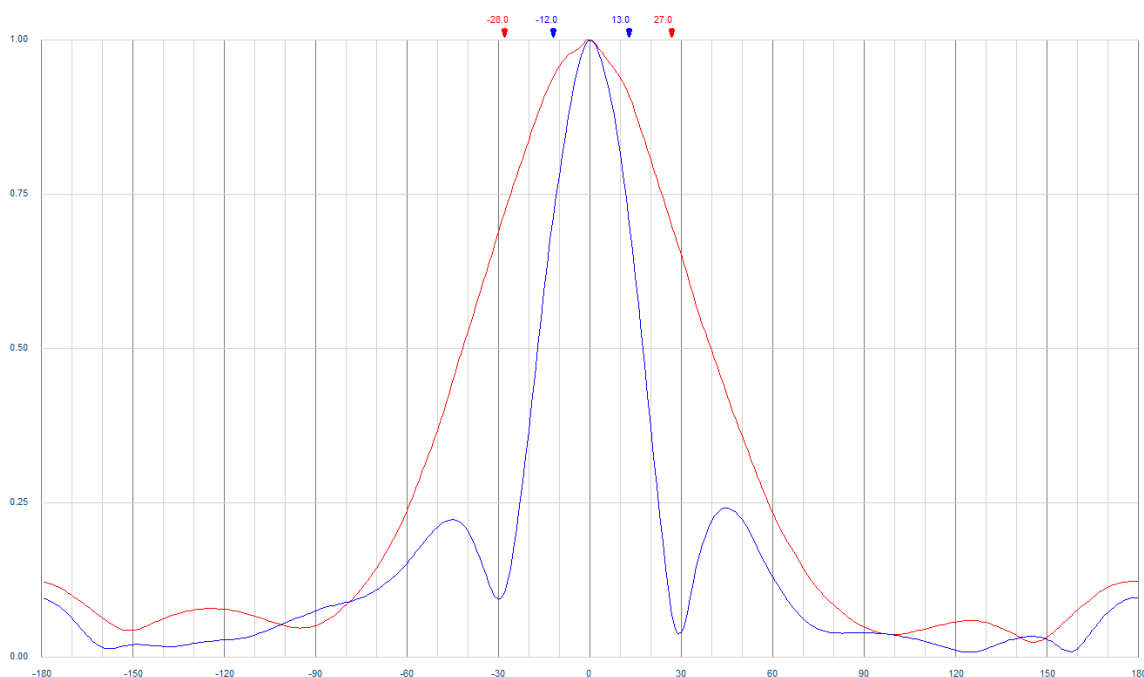


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Example polar radiation pattern



Example cartesian radiation pattern



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Mechanical Data


Height of array	Subject to configuration
Total net weight	Refer to table
Wind Load	Refer to table
Mounting hardware	One clamp per dipole - order separate

Technical Data


Configuration	Off-set	Gain - dBd	Weight - kg	Antenna height L - m	Wind load - kN
1 panel	N/A	10.5	11.5	1.1	0.653
2 panels		13.5	23.0	2.2	1.306
4 panels		16.5	46.0	4.4	2.612
6 panels		18	69.0	6.6	3.918
8 panels		19.5	92.0	8.8	5.224

- Gain: referred to half wave dipole, losses of power through cable or power dividers not included
- Weight: does not include mounting hardware, power dividers or mount poles
- Height calculated at generic spacing, please check handbook for calculated frequency specific spacing.
- Wind load: V = 160km/h

Array requirements



Multi-termination power divider/splitter
Specify centre frequency when ordering.
Multi-input/output connector configuration available.
Includes mounting hardware



Custom cable branch feeders
Length and termination determined by model and power divider spec.
See following page for cable type recommended




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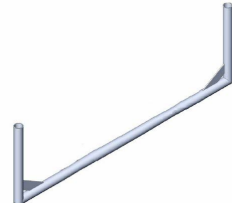
Suitable mounting hardware



MHP-21115

Custom manufactured monopole head platform.

ZCG can custom manufacture any tower antenna support structure




STBU-15

Custom manufactured heavy-duty stand-off bracket support

ZCG can custom manufacture to suit your requirements

Suitable feeder coaxial cable and connectors - 75 Ohm



RG11A/U quad shielded stranded core, solid PE dielectric, 75 Ohm coaxial cable

P/N 7801

Available in cut length or alternatively request a custom cable assembly



BNC male crimp connector for RG11 coaxial cable

P/N 7978-3

Nickel plated



RU400-75, solid core, foam PE dielectric, 75 Ohm coaxial cable

P/N 8121

Available in per metre, 500m roll or alternatively request a custom cable assembly




N-type male clamp connector for RU400-75 low loss, solid core coaxial cable

P/N 8267

Tri-metal plated

Suitable feeder coaxial cable and connectors - 50 Ohm



RG214/U dual shielded stranded core, solid PE dielectric coaxial cable

P/N 7808


Available in 100m, 300m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 coaxial cable

P/N 7936-4

Tri-metal plated



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 or alternatively request a custom cable assembly



N-type male clamp connector for RU400 low loss, solid core coaxial cable

P/N 7936-2

Nickel plated



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