

174-230MHz TV Panel Arrays 663 Series

Product Description

The 663 series has been designed for horizontally polarized VHF Band III TV applications. Each panel consists of two dipoles mounted in front of a plane reflector. The baluns are mounted in front of the reflector, and support the dipoles. The panel is fully radomed with a fibreglass reinforced plastic radome. The radiator assemblies may be fitted onto the backscreen in an inverted format when assembled as an array element.

The dipole and screen element are fabricated from 6000 series aluminium for maximum corrosion protection. Each panel is fed by a single 7/8" EIA flange connector.



Features/Benefits

- Digital TV compatible
- Horizontal polarization
- High power handling capacity
- Designed for high corrosion resistance and long life in harsh environments

Technical Specifications

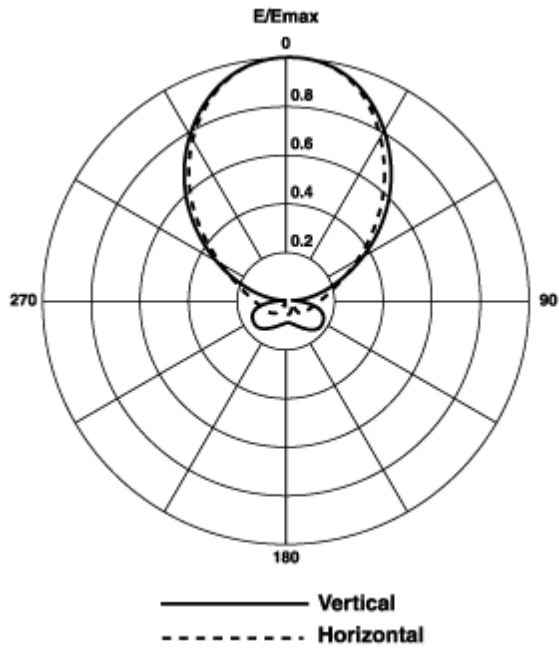
Product Line	Antenna TV
Product Type	Band III (High VHF) TV Panel Arrays
Frequency Range, MHz	174 - 230
Polarization	Horizontal
Number of Channels	Multichannel
Nominal Gain (Mid-band), dBd	7
Half Power Beamwidth Azimuth, degrees	66
Return Loss, dB	> 26 array element, 20 single element
Input Connector	7/8" EIA Flange
Power Rating, kW	4
Peak Voltage Rating, kV	27
Impedance, ohms	50 unbalanced
Weight, kg (lb)	50 (110)
Dimensions (Height or Length), cm (in)	120 (47.2)
Dimensions (Width), cm (in)	120 (47.2)
Dimensions (Depth), cm (in)	66 (26)
Mounting (Standard), mm (in)	8 x 10mm (3/8) bolts
Effective Area Front (full antenna), sq m (sq ft)	0.90 (9.70)
Effective Area Side (full antenna), sq m (sq ft)	1.10 (11.80)
Design Wind Speed (max), km/h (mph)	240 (150)
Wind Load @ 50 m/sec Front, kN (lb)	3.51 (790)
Wind Load @ 50 m/sec Side, kN (lb)	1.90 (427)
Wind Load @ 50 m/sec Rear, kN (lb)	4.75 (1067)
Pressurization Operational, kPa (psi)	10 - 25 (1.5 - 3.6)
Pressurization Test, kPa (psi)	100 (15)

Notes

Other Documentation



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All information contained in the present datasheet is subject to confirmation at time of ordering