

**PSP Panel Array Series**

470-806MHz UHF TV Panel Arrays

PSP Series

The PCP broadband panel is designed as a building block for integration into complex antenna arrays. It is a dual feed circularly or elliptically polarised UHF panel antenna. The panel can also be used individually for simple distributed or infill applications.

FEATURES / BENEFITS

- Fully re-engineered for Digital TV, Mobile TV, Analogue TV and MIMO applications
- Corrosion resistant aluminium construction with fibreglass radome (optional stainless steel)
- Slant polarisation
- Low wind loading
- Cyclone rated
- High power rating
- Full band operation
- Array design allows a variety of horizontal radiation patterns with or without vertical beam tilt and null fill, contact RFS for details
- Temperature range -40 to +60 C available
- For detailed technical information use the external document link below.

**Technical features****STRUCTURE**

Product Line		Antenna UHF TV
Product Type		Band IV/V (UHF) TV Panel Arrays

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	470 - 860
Polarization		Slant: 80% horizontal, 20% vertical
Nominal Gain (Mid-band)	dBd	11 -13 (refer Note 2)
Half Power Beamwidth Azimuth	degrees	60
Return Loss	dB	25
Power Rating	kW	2.5 (refer Note 1)
Impedance (unbalanced)	Ω	50

MECHANICAL SPECIFICATIONS

Number of Channels		Multi-channel
Input Connector		7-16 DIN; 7/8" EIA
Mounting (Standard)	mm (in)	4 x 10mm (3/8") bolts
Effective Area Front (full antenna) No Ice	m ² (ft ²)	Front 0.6 (6.5), Back 0.75 (8.1), Side 0.4 (4.3)
Effective Area Front (full antenna) with 12.5mm(0.5") Radial Ice	m ² (ft ²)	Front 0.6 (6.5), Back 0.75 (8.1), Side 0.4 (4.3)
Design Wind Speed	km/h (mph)	240 (150)
Pressurization Operational	kPa (psi)	10-21 (1-3) 7/8" EIA version
Pressurization Test	kPa (psi)	100 (15) 7/8" EIA version
Weight	kg (lb)	12 (26)

PACKAGING INFORMATION

Shipping Weight, Kg (lb)	kg (lb)	12 ()
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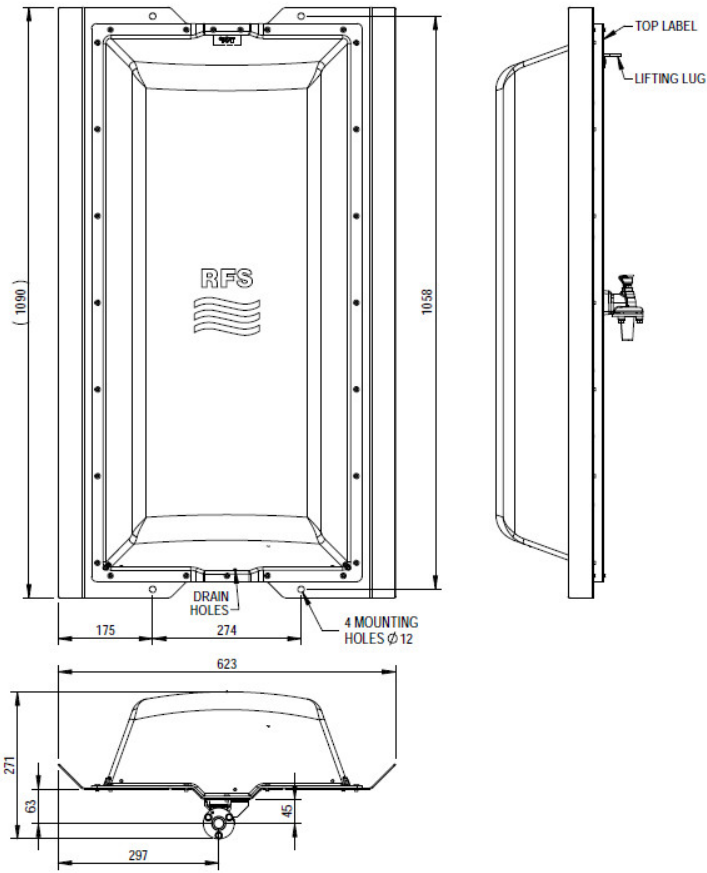
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MATERIAL

Material - Radome		Fibreglass
Material - Insulators		PTFE
Material - Radiators		Corrosion resistant aluminium (optional stainless steel)
Material - Reflecting Screen		Corrosion resistant aluminium
Colour		White radome standard, other upon request



PSP Panel Views

External Document Links

[PSP array application guide-04](#)

Notes

1. 1.75kW at 665MHz with 7-16DIN connector
2. 80/20 split must be accounted for in ERP calculations