

UHF Slot Antenna LPR Series - SK and A

A new slim and light weight UHF antenna has been developed to provide excellent horizontal pattern performance operating over optimised discrete UHF broadcast bands in 488 - 806 MHz. These uniquely combined features, combined with a extremely low weight and low wind load construction make this antenna an ideal choice for applications, such as repeater stations for DVB-H, where an economical and very flexible antenna solution is required.

FEATURES / BENEFITS

- ➔ Horizontal polarised
- ➔ Ideally suited for low power infills or Mobile TV applications
- ➔ Low drag profile underpins the antenna's high wind speed rating and low wind load characteristics
- ➔ Cost-effective
- ➔ Broad band
- ➔ High input power
- ➔ Cavity frequency groups 488-548, 518-578, 548-608, 578-638, 614-674, 644-704, 662-722, 704-764, 746-806



LPR4SK



LPR4A

Technical Features

STRUCTURE

Product Line		Antenna TV
Product Type		Band IV/V (UHF) TV Slot Antennas

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	488 - 806
Operating Frequency Ranges	MHz	488 - 608 578 - 704 662 - 806
Polarization		Horizontal
Nominal Gain (Mid-band)	dBd	LPR4SK 10.1-10.5 LPR4A 8.9-9.3
Return Loss	dB	> 20.8
Power Rating	kW	1.6 @ 806 MHz
Beam Tilt	degrees	0.0
Impedance (unbalanced)	Ω	50

MECHANICAL SPECIFICATIONS

Input Connector		7-16 DIN Female at Centre
Dimensions (Height or Length)	cm (in)	2240-3040 (88-120)
Mounting (Standard)	mm (in)	600 x 60mm OD (23.6 x 2.6") OD
Effective Area Comment		LPR4SK 05.-0.7 LPR4A 0.7-1.0
Design Wind Speed (max)	km/h (mph)	180 (50)
Wind Load Comment		LPR4SK 0.7-1.2 LPR4A 1.1-1.45 Max for LPR4A 470-536MHz 44 m/s /160 kmh
Weight	kg (lb)	LPR4SK 22-23 (48-72) LPR4A 25-35 (55-77)

MATERIAL

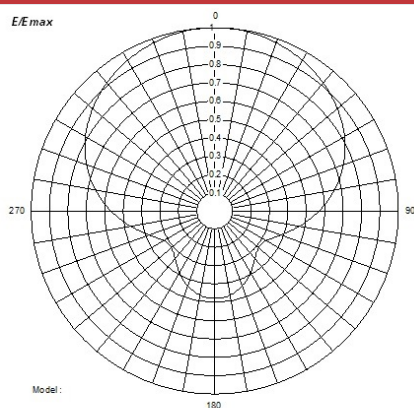
Material - Radome		UV Resistant Fibre Glass
Material - Radiators		Aluminium

External Document Links

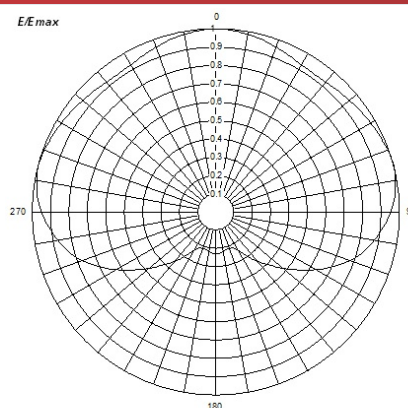
Notes



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Typical Azimuth Radiation Pattern - SK Series



Typical Azimuth Radiation Pattern - A Series

