

694-960 MHz, Omnidirectional Antenna, 11 dBi gain,
2-14 Deg. RET, 2 x 4.3-10 Female Connector

KP-700DPOMA11-4F-R



Features

- 2-14° Remote Electrical Tilt (RET) using AISG 2.0
- Internal RET
- 694-960 MHz
- Omnidirectional
- 11 dBi gain
- Fiberglass radome for easy and rugged installation
- Rooftop Mount
- 2 x 4.3-10 Female Connectors for Low Passive Intermodulation (PIM)
- <-150 dBc PIM at 2x20W tones

Applications

- Public Safety
- Wireless Data / cellular networks
- 700, 800, 850 MHz Bands

Description

The KP Performance KP-700DPOMA11-4F-R is a RET Omni antenna with 45 deg. slant and 694 to 960 MHz frequency range with two low PIM 4.3-10 female connectors. Remote Electrical Tilt (RET) antennas allow for the remote adjustment of its tilt angle. This feature optimizes signal strength and coverage, improving network performance and user experience. Communication networks that require continuous optimization to adjust antenna beams to changing traffic patterns and environmental conditions will benefit from the remote AISG controller ready capabilities of the KP-700DPOMA11-4F-R RET antenna.

KP Performance's KP-700DPOMA11-4F-R operates from 694 to 960 MHz with 11 dBi gain. This Omnidirectional antenna has a maximum input VSWR of 1.5:1 and a maximum input power of 250 watts.

Whether using a handheld controller or a base station radio with integrated AISG controller, the KP-700DPOMA11-4F-R remote management capabilities make it easy to adjust the electrical tilt angle. Its durable fiberglass construction enables it to withstand harsh environments, making it suitable for use in various communication applications. The KP-700DPOMA11-4F-R RET antenna has a Passive Intermodulation rating of -150 dBc, which results in reduced interference, more reliable communication, and increased operational efficiency.

KP Performance has one of the largest in-stock collections of Omni directional antennas with our wide selection of superior quality RF parts, that ship same day. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal multi band Omni antenna as per your requirement.

Configuration

Design	Omni
Band Type	Multi
Radiation Pattern	Omnidirectional
Polarization	45 Deg. Slant
Connector Type	4.3-10 Female
Number of Ports	2
Lightning Protection	DC Grounded

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	694		960	MHz
Input VSWR			1.5:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[694-960 MHz, Omnidirectional Antenna, 11 dBi gain, 2-14 Deg. RET, 2 x 4.3-10 Female Connector KP-700DPOMA11-4F-R](#)

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Impedance	50	Ohms
Gain	11	dBi
Input Power	250	Watts
Passive Intermodulation Intermodulation IM3 (2x43dBm carrier)	-150	dBc
Downtilt	2	14 Degrees

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.694 to 0.79	0.79 to 0.89	0.89 to 0.96			GHz
Gain	10.4	11	11.4			dBi
Horizontal HPBW	360	360	360			Degrees
Vertical HPBW	9.5	8.7	8.1			Degrees
Port to Port Isolation	25	25	25			dB

Mechanical Specifications

Radome Material	Fiberglass
Size	
Length	90.55118 in [230 cm]
Width	14.9606 in [380 mm]
Height	14.9606 in [380 mm]
Mounting Mast Diameter	1.97 to 4.53 in [50.04 to 115.06 mm]
Weight	115 lbs [52.16 kg]

Environmental Specifications

Temperature	
Operating Range	-50 to +65 deg C
Wind Survivability	134.22 MPH [216.01 KPH]
Wind Loading	154 lbf (683 N) @ 93 mph (150 km/h)

Plotted and Other Data

Notes:

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Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

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KP-700DPOMA11-4F-R CAD Drawing

