

600 to 960 MHz + 1710 to 2700 MHz + 3300 to 3800 MHz MIMO Log Periodic Antenna, 7 to 11 dBi, High Gain, 2 Type N Female Connector, V/H-pol

KP-LP1004



Features

- Frequency coverage for 600 MHz to 3800 MHz
- Very High Gain 11 dBi Directional Antenna
- Each connector covers wide band of frequencies
- Easy Install universal mounting bracket provided
- Weatherproof ABS radome
- Pigtail – 20 inches
- 2 X N-Type Female connector

Applications

- Point-to-point, LPWAN, LoRA, LTE-M, NB-IoT, IoT, CBRS, M2M applications
- 5G / 4G LTE B1 to B10, B12 to B20, B23, B22, B24, B25, B28 / 3G / GSM / AWS / WLAN/ CBRS operation supported
- 5G Bands supported
- DAS (Distributed Antenna Systems)
- IEEE 802.11a / b / g / n / ac / ad / ah/ ax Wi-Fi applications
- Public safety, utilities, CCTV and local radio coverage
- Smart cities expansion for coverage and IOT / IIOT

Description

The KP-LP1004 from KP Performance Antennas is a high-performance log periodic antenna specifically designed to aesthetically pleasing design. The KP-LP1004 operate from 600 to 3800 MHz for point-to-point applications, 5G, LTE, CMDA, LoRA, IoT, WIFI, where directivity and coverage are very important. The KP Performance Antennas KP-LP1004 has 11 dBi of gain which is ideal for boosting.

The KP Performance Antennas KP-LP1004 has V/H polarization, 85 horizontal beamwidth, and 65 vertical beamwidth for point-to-point communication. The included mounting brackets allow for either vertical or horizontal mounting configurations with easy install instructions. Where there is weak coverage and needs to reach further distances, log periodic antennas are best. The directional KP-LP1004 antenna has 2 Type N Female connector on a 20 Inches long pigtail.

KP Performance KP-LP1004 log periodic antenna operates in 5G bands n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n48, n53, n65, n66, n67, n67, n70, n71, n77, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98 with a 11 dBi max. This 600 to 3800 MHz 5G directional log periodic antenna with Type N connector is in stock and ready to ship the same day. Our expert technical support and friendly, knowledgeable customer service personnel are available to assist you with your particular needs for high performance Log Periodic antenna engineered for superior performance antennas.

Configuration

Design	Log Periodic
Band Type	Multi
Radiation Pattern	Directional
Polarization	Vertical and Horizontal
Cable Type	RG58
Cable Length	19.69 in [500.13 mm]
Connector Type	N Female
Number of Ports	2

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	600		3,800	MHz
Input VSWR		2:1	2.5:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [600 to 960 MHz + 1710 to 2700 MHz + 3300 to 3800 MHz MIMO Log Periodic Antenna, 7 to 11 dBi, High Gain, 2 Type N Female Connector, V/H-pol](#)

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Impedance		50	Ohms
Gain	7	11	dBi
Input Power		50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.6 to 0.96	1.71 to 2.7	3.3 to 3.8			GHz
Gain	7	9	11			dBi
Horizontal HPBW	85	65	55			Degrees
Vertical HPBW	65	50	45			Degrees
Front to Back Ratio	15	18	20			dB
VSWR Max	2.5:1	2.5:1	2:1			
Maximum Input Power	50	50	50			Watts

Mechanical Specifications

Radome Material	ABS
Size	
Length	18.11 in [459.99 mm]
Width	10.24 in [260.1 mm]
Height	10.24 in [260.1 mm]
Mounting Mast Diameter	1.57 to 1.97 in [39.88 to 50.04 mm]
Weight	5 lbs [2.27 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Survivability	150 MPH [241.4 KPH]
Wind Loading	23.5 lbs at 100 MPH 36.2 lbs at 125 MPH
Humidity	5 to 95

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.

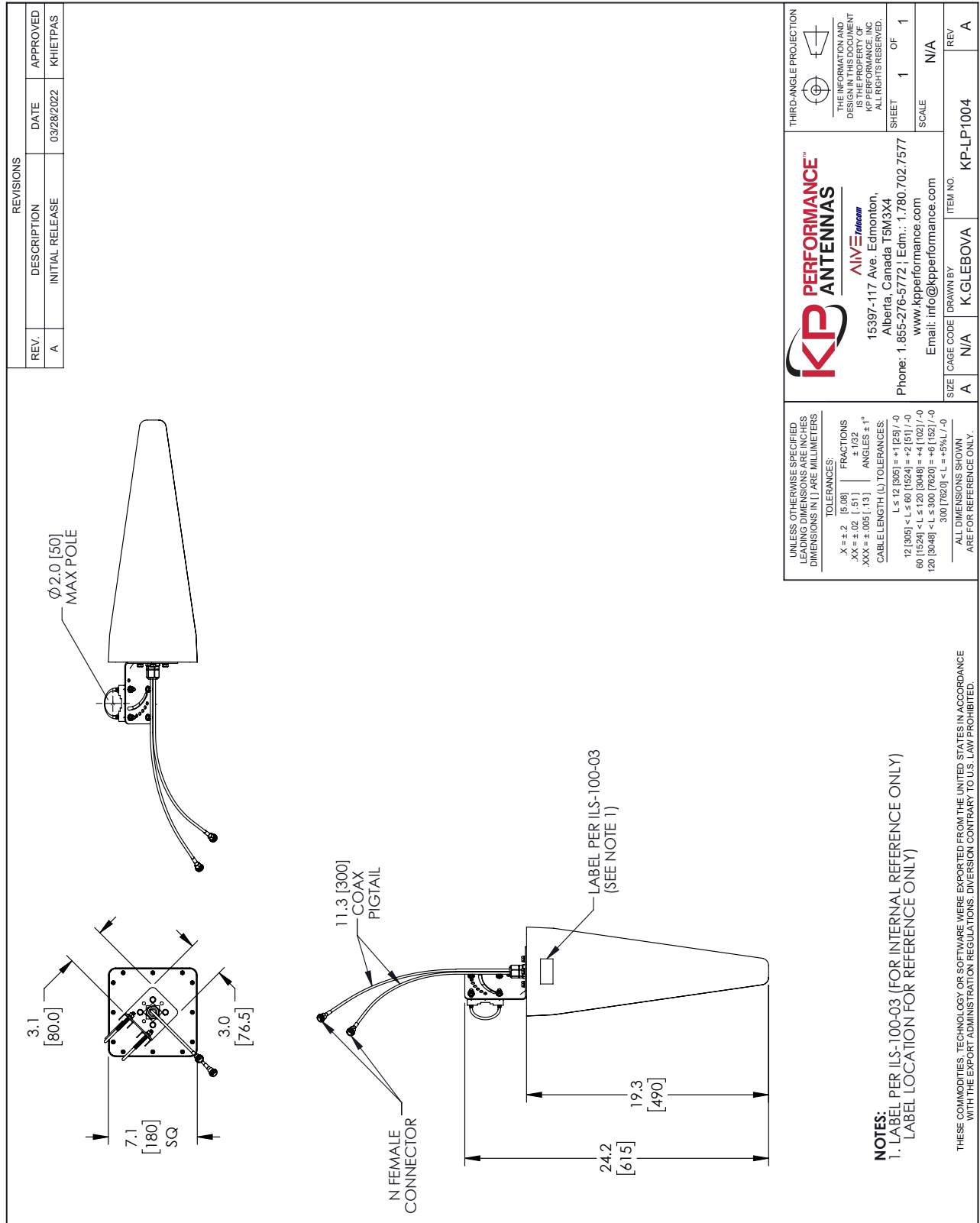
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URL: <https://www.kpperformance.com/No-URL-Convention-Found-for-?KP-LP1004-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. KP Performance reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. KP Performance does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and KP Performance does not assume liability arising out of the use of any part or document.

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KP-LP1004 CAD Drawing



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5.08] FRACTIONS ± 1/32
 .XX = ±.02 [.51] ANGLES ± 1°
 .XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:
 L ≤ 12 [305] = ±1 [25] / -0
 12 [305] < L ≤ 60 [1524] = ±2 [51] / -0
 60 [1524] < L ≤ 120 [3048] = ±4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = ±6 [152] / -0
 300 [7620] < L = +5% / L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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SIZE A CAGE CODE N/A DRAWN BY K.GLEBOVA ITEM NO. KP-LP1004 REV. A

NOTES:
 1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)
 LABEL LOCATION FOR REFERENCE ONLY)

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