



5.8 GHz, 6 dBi, Omni Antenna with N-Male Connector

Antennas Technical Data Sheet

KP-58VOMNI-6

Features

- Durable UV-Stable Fiberglass Radome
- Industrial Grade Design for Harsh Environments
- Integral N-Male Connector
- Fully Sealed Brass Elements

Applications

- Point to Multipoint Applications
- 5.3 GHz, 5.4 GHz and 5.8 GHz Band Applications
- IEEE 802.11a, 802.11n, 802.11ac, 802.11ax Wireless LAN
- WiMAX, WISP and WiFi Compatible
- Wireless Video Systems

Description

The KP Performance Antenna KP-58VOMNI-6 with N-male connector is an economical yet high performance omnidirectional antenna designed for the 5 GHz unlicensed band. This compact and lightweight antenna is ideally suited for IEEE 802.11a, 802.11n, 802.11ac, and 802.11ax wireless LANs, IoT, public safety and other multipoint applications where wide coverage is desired.

KP Performance KP-58VOMNI-6 omnidirectional antenna features fully sealed brass elements inside a durable UV-stable fiberglass radome. This is a lightweight yet rugged design for industrial and other harsh environments.

The integrated N-male connector on the KP-58VOMNI-6 omnidirectional antenna allows it be mounted to various types of N-Female Bulkhead connectors and adapters as well as N-Female type magnetic mounts. In addition to shipping the same day, our 5 GHz omnidirectional antennas are high-quality components backed by expert technical support and sales personnel.

Configuration

Design	Omni
Frequency Range	5.15 to 5.85 GHz
Polarization	Vertical
Connector Type	N Male
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		50		Ohms
Gain Nominal		6		dBi
Gain Variation		±0.5		dBi
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		28		Degrees
Input Power			100	Watts
VSWR		1.3:1	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: [5.8 GHz, 6 dBi, Omni Antenna with N-Male Connector KP-58VOMNI-6](#)



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Mechanical Specifications

Radome Material	Black Fiberglass
Size	
Length	11.3 in [287.02 mm]
Width	0.8 in [20.32 mm]
Weight	0.3 lbs [136.08 g]
Mounting	
Mounting Mast Diameter	1.2 to 2 in [30.48 to 50.80 mm]
Mechanical Specification Notes:	
Pipe Mount Sold Separately	

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-40 to +185 deg C
Wind Survivability	150 MPH [241.4 KPH]

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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.

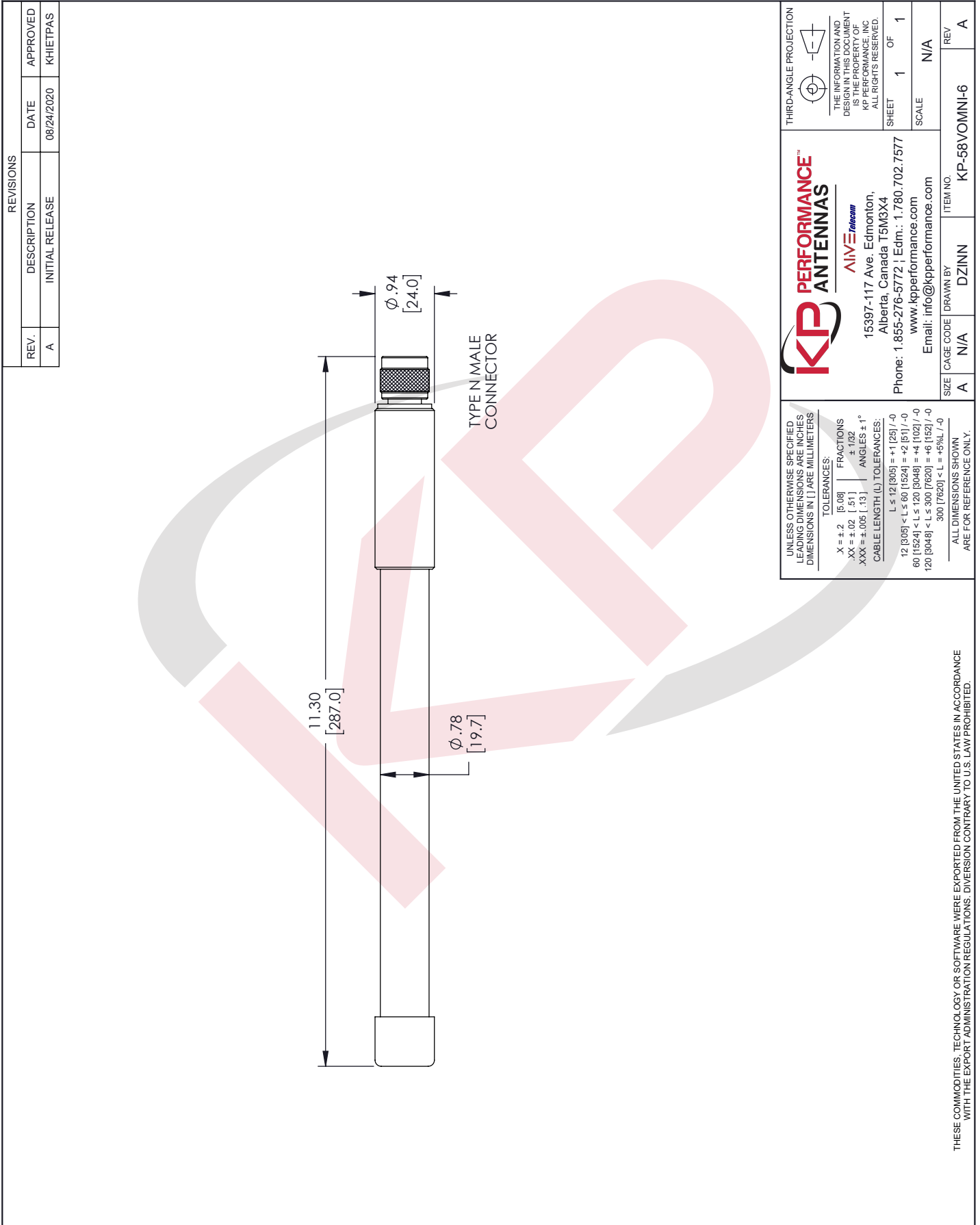
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URL: <https://www.kpperformance.com/5-8ghz-6dbi-omni-antenna-n-male-connector-kp-58vomni-6-p.aspx>

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KP-58VOMNI-6 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/24/2020	KHIETPAS

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