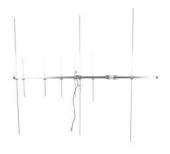


144 to 148 MHz + 300 to 450 MHz, 9.5/11.5 dBi Aluminum Alloy Yagi Antenna with N Female, Vertical Polarization, 1 Port, 1.5 VSWR

KP-138SPY10-NF



Features

- Frequency coverage for 144 MHz to 148 MHz and 300 MHz to 450 MHz with Type N Female connector and gain 4.6 dBi / 2.45 dBd antennas
- Covers 2-Meter ameture band of 145MHz VHF band
- Easy and quick time to installations with small packaging

Applications

- Outdoor point-to-point (PtP) or point-to-multipoint (PtMP) applications
- 2-meter band applications of 145MHz band
- VHF/UHF radio applications supported with Trunking for twoway radio communications

- Weather and corrision free made of high-grade aluminum alloys
- 100 W max input power
- Vertical Polarization
- Public Safety / Emergency services / Marine communications / Rail road communications
- Tetra and P-25 Applications exclusively supported
- Land Mobile Radio (LMR) and Private Mobile Radio (PMR)
- Fixed and mobile services for paging/voice/data in full duplex and half duplex mode

Description

The KP Performance KP-138SPY10-NF 144 to 148 MHz and 300 to 450 MHz, 9.5/11.5 dBi aluminum alloy yagi antenna, with N female connector is a low cost, high performance antenna designed for high power applications. With a frequency range of 145 to 435 MHz, this yagi antenna is suitable for military communications, trunking, public safety, industrial communication, and amateur radio applications. This high gain 9.5/11.5 dBi antenna transmits high power signals, increasing the signal strength, thus providing improved coverage, better broadcast control, and faster speed.

KP's KP-138SPY10-NF yagi antenna elements are compactly packaged, thus transportation, and installation become easier. It has a 1.5 VSWR that results in the best power transfer and reduced losses. This VHF/UHF antenna with 144 to 148 MHz and 300 to 450 MHz is made of strong and light aluminum alloy and has highly directional characteristics. It comes with an N female connector type, which is a threaded and weatherproof connector that ensures a reliable physical connection. All elements of the KP-138SPY10-NF yagi antenna are packaged in a compact pack for easy transportation and installation.

This antenna uses vertical polarization to transmit signals, reducing interference and improving performance at lower heights. This yagi antenna has 1 port to connect an external circuit with 100W maximum input power per port. This 9.5/11.5 dBi yagi antenna's components are all DC grounded for lightning protection, have a rugged outdoor design, and have a high power handling capacity.

This KP-138SPY10-NF aluminum alloy yagi antenna from KP comes in compact packaging for lower shipping costs and less real estate, is in stock and available for same-day shipping. This yagi antenna with 9.5/11.5 dBi maximum gain is ideal for LMR, military, airports, construction, mining, commercial applications, and radio users. Based on your specifications, our expert technical support and trained sales team can find the ideal 144 to 148 MHz and 300 to 450 MHz, 9.5/11.5 dBi aluminum alloy yagi antenna with an N female connector.

Configuration

Band Type Radiation Pattern Polarization Connector Type Number of Ports Lightning Protection Single Directional Vertical N Female 1 DC Ground

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 144 to 148 MHz + 300 to 450 MHz, 9.5/11.5 dBi Aluminum Alloy Yagi Antenna with N Female, Vertical Polarization, 1 Port, 1.5 VSWR KP-138SPY10-NF



144 to 148 MHz + 300 to 450 MHz, 9.5/11.5 dBi Aluminum Alloy Yagi Antenna with N Female, Vertical Polarization, 1 Port, 1.5 VSWR

KP-138SPY10-NF



Electrical Specifications

Units	Maximum	Typical	Minimum	Description
	1.5:1			Input VSWR
Ohms		50		Impedance
Watts	100			Input Power
	100	50		

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.144 to 0.148	0.3 to 0.45				GHz
Gain	9.5	11.5				dBi

Mechanical Specifications

Radome Material	Aluminum Alloy
Size Length Width Height Weight	43.4 in [110.24 cm] 21.7 in [551.18 mm] 2 in [50.8 mm] 2.2 lbs [997.9 g]
Environmental Specifications Temperature Operating Range	-40 to +80 deg C
Plotted and Other Data	

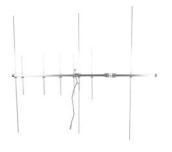
Notes:

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144 to 148 MHz + 300 to 450 MHz, 9.5/11.5 dBi Aluminum Alloy Yagi Antenna with N Female, Vertical Polarization, 1 Port, 1.5 VSWR

KP-138SPY10-NF



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:

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 impliment 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

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144 to 148 MHz + 300 to 450 MHz, 9.5/11.5 dBi Aluminum Alloy Yagi Antenna with N Female, Vertical Polarization, 1 Port, 1.5 VSWR

KP-138SPY10-NF CAD Drawing

