



## Antennas Technical Data Sheet

### **Features**

- Duplexer (VHF/UHF 108-174 MHz/380-870 MHz), with integral N-type (m) Connectors (3 ea.)
- Low Loss 195 NMO mount with cable (1 ea.)

## **Applications**

Service VehiclesPublic Safety

- Public Transportation
- Mining & Construction

### Description

This VHF/UHF mobile duplexed antenna kit is ideally suited for multipoint mobile applications including service vehicles, public transportation, public safety, mining and construction vehicles, as well numerous other commercial and industrial applications where mobility and wide coverage is desired. The antenna kit features a VHF/UHF duplexer and a pair of field tunable antennas. This gives users the flexibility to operate radio transceivers in any VHF and UHF band with optimum performance. The kit allows the user to upgrade/switch to any NMO-type antenna.

### Configuration

Design Application Band Band Type Cable Length Connector Type Interface 2 Duplexer VHF/UHF Dual 204 in [518.16 cm] NMO Mount N

RG-58/U NMO mount with cable (1 ea.)

• Field Tunable Antennas (2 ea.)

• RG-58/U Feed Cable (1 ea.)

### **Duplexer Electrical Specifications**

Minimum	Typical	Maximum	Units
100		180	MHz
380		870	MHz
		1.6:1	
	50		Ohms
50			dB
	100 380	100 380 50	100 180   380 870   1.6:1   50

### **Electrical Specification Notes:**

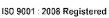
Electrical specifications data applies to Duplexer

### **Duplexer Specifications by Band**

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	100-180	380-520	746-870			MHz
Insertion Loss	0.2	0.3	0.5			dB
Maximum Input Power	150	100	75			Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Dual Band Duplexed Antenna Kit 108-174 380-870 MHz NMO Mount/N Type Connectors PE51AK1000

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### Field Tunable Antenna Electrical Specifications

Description	Min	Тур	Max	Max	
Frequency Range	108		870	MHz	
VSWR (Field Tuanble			1.6:1		
Impedance		50		Ω	
Gain		2		dBi	
Power Rating		100			
Polarization		Linear, Vertical			
E-Plane		50		Degrees	
H-Plane		Omnidirectional			
Groundplane		Required			

#### Field Tunable Antenna Mechanical Specifications

Height	31.75 in [806 mm]		
Radiator Material	300 Series SS		
Radiator Plating	Black Chrome		
Base Material	Xenoy™ w/TPV Skirt		
Mounting Application	¾" thru-hole NMO mount		
Operating Temperature	-40°C to 85°C		
Corrosion	Salt and UV Resistant		

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<b>Size</b> Overall Length	3.27 in [83.06 mm]	
Width Height	2.1 in [53.34 mm] 1.1 in [27.94 mm]	
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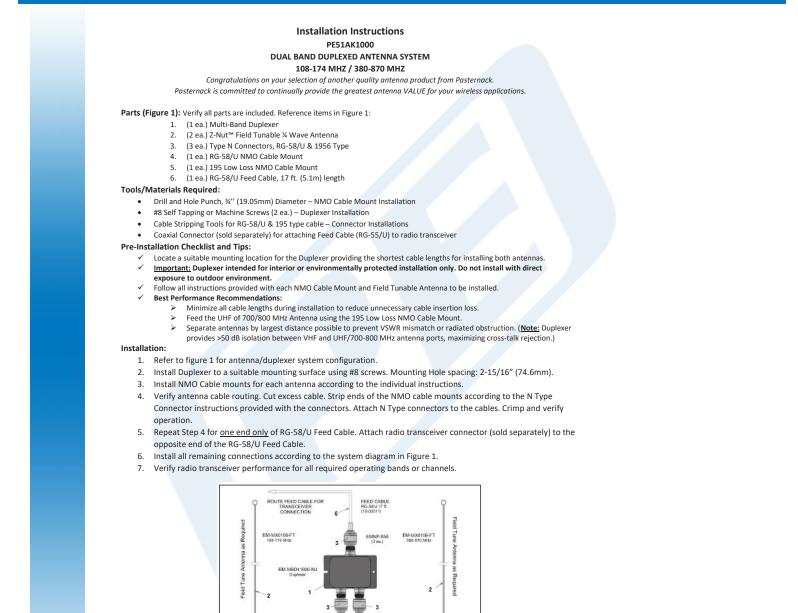
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F/380-870 MH

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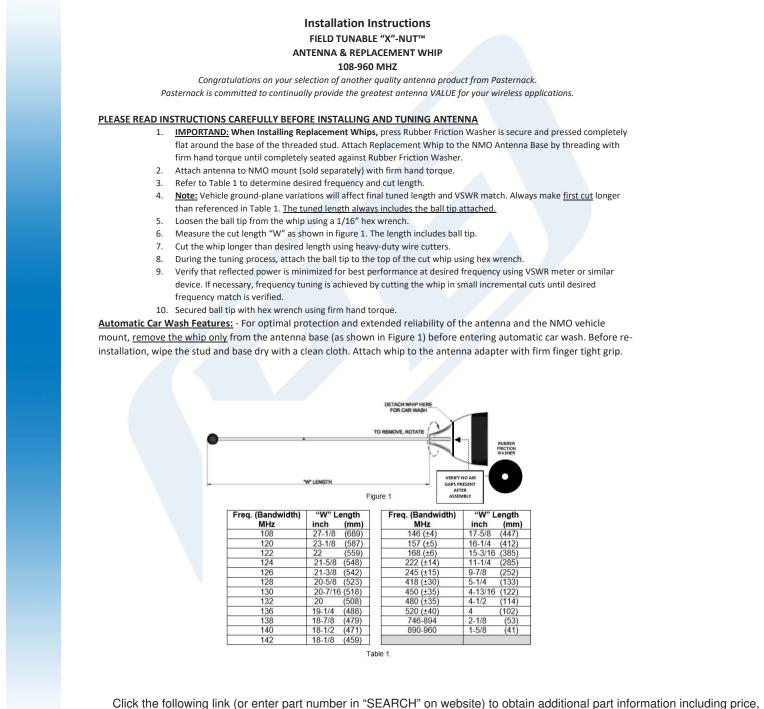
Figure 1





# Antennas Technical Data Sheet

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inventory and certifications: Dual Band Duplexed Antenna Kit 108-174 380-870 MHz NMO Mount/N Type Connectors PE51AK1000

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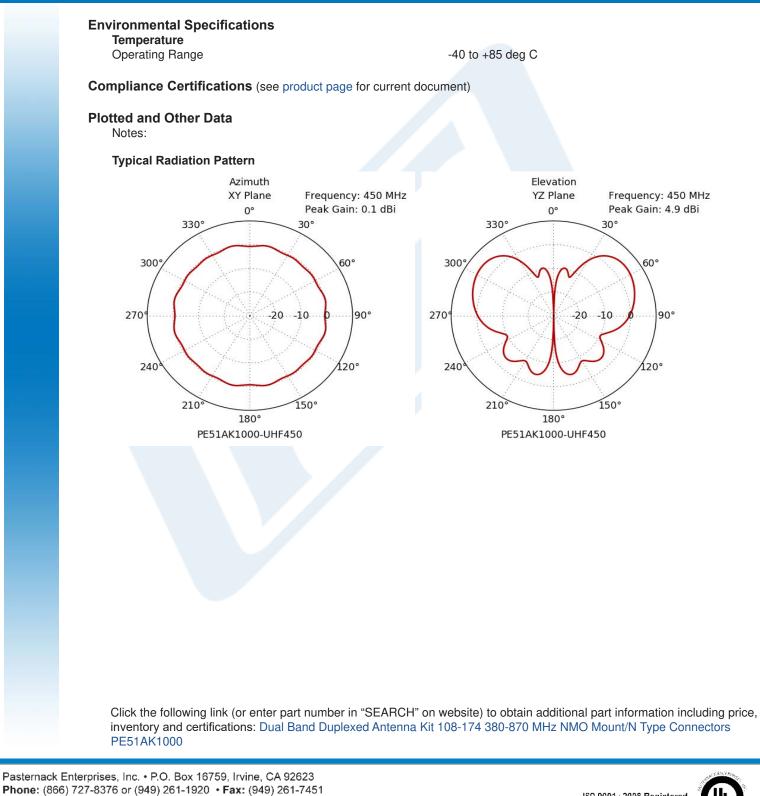


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# Dual Band Duplexed Antenna Kit 108-174 380-870 MHz NMO Mount/N Type Connectors



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#### Azimuth Elevation **XY** Plane Frequency: 806 MHz YZ Plane Frequency: 806 MHz Peak Gain: 0.2 dBi Peak Gain: 3.2 dBi 0° 0° 3309 330° 30° 30° 60° 300 60° 300 90° 270 90° -20 -10 -20 -10 270 120° 240 240 120° 150° 150° 210 210 180° 180° PE51AK1000-UHF806 PE51AK1000-UHF806 Azimuth Elevation XY Plane Frequency: 150 MHz YZ Plane Frequency: 150 MHz Peak Gain: -1.4 dBi Peak Gain: 2.9 dBi 0° 0° 3309 3309 30° 30° 300 60° 300 60° -20 -10 90° -20 -10 90° 270 0 270 120° 120° 240 240 150° 210 150° 210 180° 180° PE51AK1000-VHF150 PE51AK1000-VHF150

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URL: https://www.pasternack.com/dual-antenna-0-gain-nmo-mount-pe51ak1000-p.aspx

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# PE51AK1000 CAD Drawing

Dual Band Duplexed Antenna Kit 108-174 380-870 MHz NMO Mount/N Type Connectors

