



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 Vehicles

Public Safety

- Public
- Public TransportationMining & 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

Description	Minimum	Typical	Maximum	Units
Frequency Range (VHF)	100		180	MHz
Frequency Range (UHF)	380		870	MHz
Input VSWR (All Ports)			1.6:1	
Impedance		50		Ohms
Isolation (VHF↔UHF-870)	50			dB

Electrical Specification Notes:

Electrical specifications data applies to Duplexer

Duplexer Specifications by Band

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

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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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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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Duplexer Mechanical Specifications Size **Overall Length** 3.27 in [83.06 mm] Width 2.1 in [53.34 mm] 1.1 in [27.94 mm] Height

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Dual Band Duplexed Antenna Kit 108-174 380-870 MHz NMO Mount/N Type Connectors from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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

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

