



The specialist of Radio Frequency Communication systems

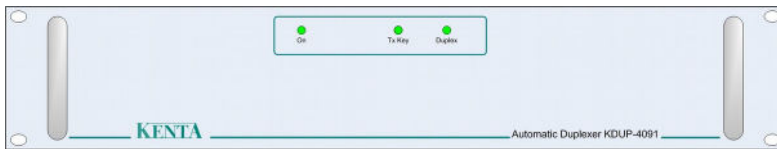
KDUP-4091

VHF Automatic Duplexer

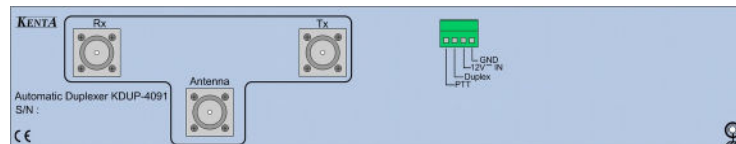
The **KDUP-4091** product allows a VHF transceiver to be able to work in full duplex mode or simplex mode on one antenna. The duplex mode is controlled by the VHF transceiver, so that the duplexer can be selected or bypassed by coaxial relays.

The **KDUP-4091** is a cavity high-power, base-station duplex filter for the 152-175MHz VHF frequency band. This type of filter uses enlarged, full quarter-wavelength cavities with silver-plated, temperature compensated resonator elements. The high Q's obtainable in these cavities enable the filter to work with very narrow duplex spacing while at the same time keeping low insertion losses. Further, duplex isolation is improved at medium spacing.

The **KDUP-4091** product is fully integrated inside a 19" - 2U rack with optional power supply from 100/240 VAC – 50/60Hz (with +12VDC possibility), for an easy installation on site. Basics LEDs are available on the front panel for local status indications.



Front Panel View



Rear Panel View

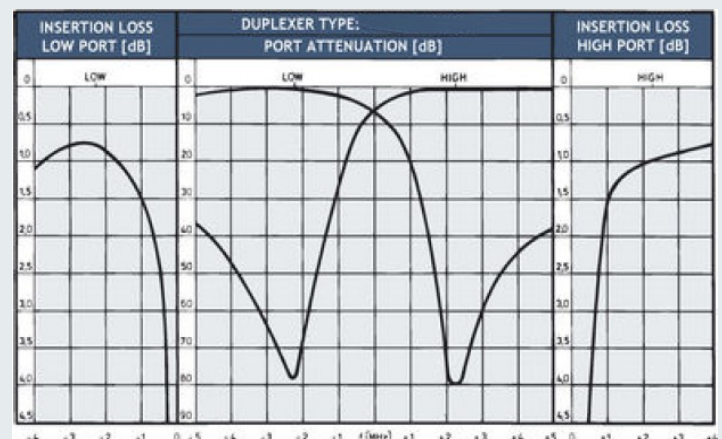
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VHF Automatic Duplexer

Technical Specifications

| | |
|-------------------------------|--|
| Mechanical: | 19" – 2U rack - 5kg |
| Insertion Loss: | Tx-Ant : ≤ 1.2 dB Ant-Rx : ≤ 1.2 dB |
| Duplex Spacing: | 4MHz |
| Impedance: | 50 Ω |
| RF Power: | 50W Nominal |
| SWR: | $\leq 1.5:1$ |
| Operating temperature: | -20 to +55°C |
| Humidity: | <90 % |
| Optional Power Supply: | Single Phase 110-220VAC – 50/60Hz / +12VDC |

Typical Response Curves @ 4.5MHz Duplex Spacing:



www.kenta.fr

T: +33 (0)2 98 521 602

@: contact@kenta.fr

Z.A. Kerourvois 2 – Rue Albert Einstein
F29500 Ergué-Gabéric - France

Main Ordering Information:

~KDUP-4091

VHF Automatic Duplexer

KDUP-4091 Product Datasheet
Specifications subject to change without prior notice
Document with no contractual value