LT-DPXL-136-150-5/6

VHF 50W 6-CAVITIES DUPLEXERS

The LT-DPXL-136-150-5/6 is a 6-cavity VHF duplexer designed to separate transmit and receive channels within the 136–150 MHz band, with a 5 MHz channel spacing. Engineered for demanding RF environments, it offers high isolation, low insertion loss, and robust power handling in a compact form factor.

Key Features

- Frequency range: 136–150 MHz
- 5 MHz TX/RX channel spacing
- 6 resonant cavities for high selectivity
- Isolation ≥75 dB for clean channel separation
- Insertion loss ≤1.5 dB
- Max input power: 50 W
- 50 Ω impedance, VSWR ≤1.40
- Rugged, compact metal housing
- Connectors available: N-Female / BNC-Female

Electrical Specifications	
Frequency Range	136 – 150 MHz
Channel Spacing	5 MHz
Number of Cavities	6
Impedance	50 Ω
VSWR	≤1.40
Insertion Loss	≤1.5 dB (typical ≤1.2 dB)
Isolation	≥75 dB
Max Input Power	50 W
Mechanical Specifications	
Connectors	N-F / BNC-F
Dimensions	218 × 190 × 40 mm
Weight	1.5 kg
Environmental Specifications	
Operating Temperature	–20 °C ~ +50 °C

Applications

Base stations and repeater systems
Public safety and emergency communications networks
Professional two-way radio infrastructure
Transportation and utility communication systems
RF systems requiring reliable transmit/receive isolation

Ordering Information

The duplexer series is available in the following models:

LT-DPXL-136-150-5/6 : VHF Duplexer, 136–150 MHz, 5 MHz spacing, 6 cavities, 50 W

LT-DPXL-150-180-5/6 : VHF Duplexer, 150–180 MHz, 5 MHz spacing, 6 cavities, 50 W

LT-DPXL-400-450-5/6 : UHF Duplexer, 400–450 MHz, 5 MHz spacing, 6 cavities, 50 W

LT-DPXL-450-500-5/6 : UHF Duplexer, 450–500 MHz, 5 MHz spacing, 6 cavities, 50 W

Notice

Lamatel duplexers can be factory-tuned to the customer's specified operating frequencies prior to shipment. If the required frequencies are not provided at the time of order, the duplexer will be delivered in its standard untuned state. In such cases, the responsibility for tuning the duplexer to the desired frequencies rests with the customer.