## LT-DPXL-400-450-5/6

#### **UHF 50W 6-CAVITIES DUPI FXFRS**

The LT-DPXL-400-450-5/6 is a 6-cavity UHF duplexer designed for the 400-450 MHz band with 5 MHz channel spacing. Offering robust performance with high isolation and low insertion loss, it is suited for repeaters, trunked networks, and professional UHF RF applications.

# **Key Features**



- Frequency range: 400–450 MHz
- 5 MHz TX/RX channel spacing
- 6 resonant cavities for enhanced selectivity
- Isolation ≥75 dB
- Insertion loss ≤1.5 dB
- 50 W maximum input power
- Compact, rugged design with N-F or BNC-F connectors

| Electrical Spe        | cifications               |
|-----------------------|---------------------------|
| Frequency Range       | 400 – 450 MHz             |
| Channel Spacing       | 5 MHz                     |
| Number of Cavities    | 6                         |
| Impedance             | 50 Ω                      |
| VSWR                  | ≤1.35                     |
| Insertion Loss        | ≤1.5 dB (typical ≤1.2 dB) |
| Isolation             | ≥75 dB                    |
| Max Input Power       | 50 W                      |
| Mechanical Sp         | ecifications              |
| Connectors            | N-F / BNC-F               |
| Dimensions            | 228 × 190 × 40 mm         |
| Weight                | 1.6 kg                    |
| Environmental S       | pecifications             |
| 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.

