

LT-DPXH-400-520-5/8

UHF 100W 8-CAVITIES DUPLEXERS

The LT-DPXH-400-520-5/8 is a 100 W UHF duplexer with 8 resonant cavities, operating across the 400–520 MHz band with 5 MHz channel spacing. It offers robust performance, ensuring strong TX/RX isolation and minimal signal loss for professional RF deployments.

Key Features

- Frequency range: 400–520 MHz
- 5 MHz TX/RX channel spacing
- 8 resonant cavities for high selectivity
- Handles up to 100 W power
- High isolation ≥ 75 dB
- Low insertion loss ≤ 1.2 dB
- Rugged design with N-Female connectors

Electrical Specifications	
Frequency Range	400 – 520 MHz
Channel Spacing	5 MHz
Number of Cavities	8
Bandwidth	2–4 MHz
Impedance	50 Ω
VSWR	≤ 1.5
Insertion Loss	≤ 1.2 dB
Isolation	≥ 75 dB
Max Input Power	100 W
Mechanical Specifications	
Connectors	N-F
Dimensions	230 × 260 × 40 mm
Weight	2.1 kg
Environmental Specifications	
Operating Temperature	–20 °C ~ +50 °C

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.



Applications

UHF base station and repeater systems
Public safety, emergency services, and critical communications
Transportation and utility radio infrastructure
RF systems requiring high isolation and reliable duplexing

Ordering Information

The duplexer series is available in the following models:

LT-DPXH-134-174-5/8 : VHF Duplexer, 134–174 MHz, 5 MHz spacing, 8 cavities, 100 W

LT-DPXH-300-400-5/8 : UHF Duplexer, 300–400 MHz, 5 MHz spacing, 8 cavities, 100 W

LT-DPXH-400-520-5/8 : UHF Duplexer, 400–520 MHz, 5 MHz spacing, 8 cavities, 100 W

