

LT-DPXH-134-174-5/8

VHF 100W 8-CAVITIES DUPLEXERS

The LT-DPXH-134-174-5/8 is a 100 W VHF duplexer with 8 resonant cavities, optimized for the 134–174 MHz band and a 5 MHz channel spacing. It ensures high isolation, low insertion loss, and stable operation in demanding environments such as base stations and repeater networks.

Key Features

- Frequency range: 134–174 MHz
- 5 MHz TX/RX channel spacing
- 8 resonant cavities for superior selectivity
- Handles up to 100 W power
- High isolation ≥ 75 dB
- Low insertion loss ≤ 1.5 dB
- Compact metal housing, rugged design
- Standard connectors: N-Female

Electrical Specifications	
Frequency Range	134 – 174 MHz
Channel Spacing	5 MHz
Number of Cavities	8
Bandwidth	2 MHz
Impedance	50 Ω
VSWR	≤ 1.5
Insertion Loss	≤ 1.5 dB
Isolation	≥ 75 dB
Max Input Power	100 W
Mechanical Specifications	
Connectors	N-F
Dimensions	175 × 260 × 40 mm
Weight	1.75 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

VHF 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

