

T-DPXL-450-500-5/6

6-Cavity Duplexer | 450-500 MHz

The Lamatel LT-DPXL-400-450-5/6 6-Cavity Duplexer is designed for efficient frequency separation in the 450-500 MHz UHF band. Featuring a 6-cavity design, this duplexer ensures superior isolation between transmit and receive paths, minimizing signal interference and enhancing communication clarity. Its robust construction and tunable configuration make it ideal for base stations, repeaters, and other UHF communication systems where stable, high-performance operation is essential.

Key Features

- Frequency Range: 450-500 MHz UHF band
- 6-Cavity Design for excellent TX/RX isolation
- Low Insertion Loss ensures optimal signal quality
- High Power Handling Capability for demanding communication systems
- Tunable Screw Design for flexible frequency adjustments

Key Highlights

- Wide Frequency Coverage suitable for various UHF applications
- High Isolation Performance to prevent cross-talk and interference
- Compact Design for easy integration into communication systems
- Consistent Operation Across Temperature Ranges ensuring reliability in diverse environments
- Corrosion-Resistant Materials for extended service life
- Easy Field Tuning without the need for specialized tools

Applications

- Base Stations for UHF communication networks
- Repeaters in public safety, commercial, and industrial radio systems
- Two-Way Radio Systems for clear and reliable communication
- Emergency Services Communications (Police, Fire, EMS)



Specifications

LT-DPXL-450-500-5/6	
Product Type	UHF
Frequency Range	450-500 MHz
VSWR	≤1.40
Bandwidth	±100 (KHz)
Frequency Spacing	5-7 (MHz)
Insertion Loss	≤1.5 dB
No. of Cavity	6
Isolation	≥75 dB
Maximum Input Power	50 W
Normal Impedance	50 Ω
Connector	N-F / BNC-F
Operating Temperature	-20°C - +50°C
Weight	1.6 Kg
Dimensions	218 x 190 x 40 (±0.5mm)



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