

# LT-DPX-406-512-0.5/6

## 4-Inch 6-Cavity Duplexer

These Lamatel 4-inch 6-cavity base station duplexers are ideal for high power close frequency separation installations. These Band-Pass filters are designed for the combination of 2 frequencies that require extra isolation or they can be used as an efficient pre-selector. If higher levels of isolation are required, please consider using the 8 cavity configuration. Selectivity can be determined by the field adjustable loops.



### Key Features

- Wide frequency range: 406-512 MHz
- 6-cavity, 4-inch design for high selectivity
- Supports TX/RX on a single antenna
- Low insertion loss and high isolation
- Rugged, compact, and tunable for custom use

### Applications

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### Specifications

### Key Highlights

- High power handling capacity for demanding RF environments
- Stable performance across temperature variations
- Precision-tuned cavities for enhanced frequency stability
- Easy integration into existing communication systems
- Minimal maintenance with long operational lifespan
- Designed for both indoor and sheltered outdoor installations

Electrical Specs.	LT-DPX-132-174-0.5/6	LT-DPX-406-512-0.5/6	LT-DPX-746-960-3.6/6
Frequency Range	132-174 MHz	406-512 MHz	746-960 MHz
Frequency Spacing Min.	0.5 MHz	0.5 MHz	3.6 MHz
Cavities, Diameter	6, 4-in <sup>2</sup>	6, 4-in <sup>2</sup>	6, 4-in <sup>2</sup>
Continuous Power Input	350 Watts	350 Watts	350 Watts
Connectors	N Female	N Female	N Female
Insertion Loss	2.1 dB	1.2 dB	1.2 dB
Channel Isolation (@ min. sep. dB)	85	100	85
VSWR	1.22:1	1.22:1	1.22:1
Temperature °C	-40 to +60	-40 to +60	-40 to +60
Mechanical Specs.	LT-DPX-132-174-6	LT-DPX-406-512-6	LT-DPX-746-960-6
Maximum Length, in (H x W x D)	31 x 19 x 8	8 x 19 x 15	8 x 19 x 12
Weight, lbs	45 (20.25) (Kg)	27 (12.15) (Kg)	24 (10.8) (Kg)
Mounting	19-inch rack mount	19-inch rack mount	19-inch rack mount
Order Information	Frequency	Wall Mount	6 Cavities
LT-DPX-132-174-6	132-174 MHz	LT-DPX-132-174-6WM	LT-DPX-138-174-6
LT-DPX-406-512-6	406-512 MHz	LT-DPX-406-512-6WM	LT-DPX-406-512-6
LT-DPX-746-960-6	746-960 MHz	LT-DPX-746-960-6WM	LT-DPX-746-960-6

