

# MOBILE BAND REJECT DUPLEXERS

## Helical Type • 136 - 520 MHz

**DHL Series**

### Product Features

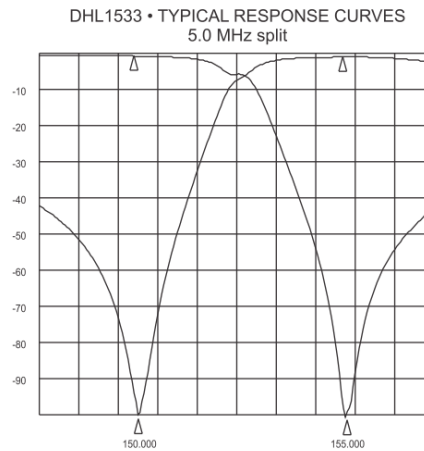
- Helical mobile duplexers
- Band reject configuration
- Semi-rigid coaxial cables are used to improve Tx to Rx isolation
- Six helical resonators, housed in 6063-T6 aluminium cavities with alodine finishing
- Standard connectors are N female. BNC female and TNC female available upon request



Mobile Duplexer DHL1533

### Applications

- Digital and analog wireless radio, low power repeaters, mobile full duplex radios, etc.



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**DHL Series**

Specifications	DHL1533A	DHL1533	DHL1533B
Frequency Range	136 – 174 MHz in 3 subranges (136-148/148-160/160-174)	136 - 174 MHz in 3 subranges (136-148 / 148-160 / 160-174)	136 – 174 MHz in 3 subranges (136-148/148-160/160-174)
Tx–Rx Separation	5.0 MHz (4.2 to 6)	3.0 MHz (3 to 4)	10.0 MHz (8.5 to 12)
Tx-Rx Band Width	0.025 MHz	0.025 MHz	0.050 MHz
Continuous Power Input, Max	50 W	50 W	50 W
Insertion Loss Tx - Antenna	1.5 dB max	1.9 dB max.	1.5 dB max
Insertion Loss Antenna - Rx	1.5 dB max	1.9 dB max.	1.5 dB max
Tx Noise Rejection at Rx Freq.	75dB min, 90dB typ	65 dB min, 75 dB typ	75dB min, 90dB typ
Rx-Tx Isolation at Tx Freq.	75dB min, 90dB typ	65 dB min, 75 dB typ	75dB min, 90dB typ
RL	15dB min, 22dB typ	15 dB min, 22dB typ	15dB min, 22dB typ
Connectors, Standard Type	N	N	N
Connectors, Optional Type	BNC (f)	BNC (f)	BNC (f)
Temperature range	-22° to 140° F • -30° to +60° C	-22° to 140° F • -30° to +60° C	-22° to 140° F • -30° to +60° C
Dimension	1.25x6.1x7.6 in • 31 x 155 x 195 mm	1.25x6.1x7.6 in • 31x155x195 mm	1.25x6.1x7.6 in • 31x155x195 mm
Weight	2.2 lbs • 1 kg	2.2 lbs • 1 kg	2.2 lbs • 1 kg

Specifications	DHL2633A	DHL2633B
Frequency Range	220 – 280 MHz in 3 subranges (220-240/240-260/260-280)	220 – 280 MHz in 3 subranges (220-240/240-260/260-280)
Tx–Rx Separation	5.0 MHz (4.2 to 6)	10.0 MHz (8.5 to 12)
Tx-Rx Band Width	0.050 MHz	0.050 MHz
Continuous Power Input, Max	50 W	50 W
Insertion Loss Tx - Antenna	1.5 dB max	1.5 dB max
Insertion Loss Antenna - Rx	1.5 dB max	1.5 dB max
Tx Noise Rejection at Rx Freq.	75dB min, 90dB typ	75dB min, 90dB typ
Rx-Tx Isolation at Tx Freq.	75dB min, 90dB typ	75dB min, 90dB typ
RL	15dB min, 22dB typ	15dB min, 22dB typ
Connectors, Standard Type	N	N
Connectors, Optional Type	BNC (f)	BNC (f)
Temperature range	-22° to 140° F • -30° to +60° C	-22° to 140° F • -30° to +60° C
Dimension	1.25 x 6.1 x 5.5 inches • 31 x 155 x 140 mm	1.25 x 6.1 x 5.5 inches • 31 x 155 x 140 mm
Weight	1.6 lbs • 0.75 kg	1.6 lbs • 0.75 kg

Specifications	DHL3533B	DHL4533B
Frequency Range	340 – 400 MHz in 3 subranges (340-360/360-380/380-400)	400 – 520 MHz in 5 subranges (400-420/420-440/ 440-470/470-500/500-520)
Tx–Rx Separation	10.0 MHz (8.5 to 12)	10.0 MHz (8.5 to 12)
Tx-Rx Band Width	0.025 MHz	0.050 MHz
Continuous Power Input, Max	25 W	25 W
Insertion Loss Tx - Antenna	1.5 dB max	1.5 dB max
Insertion Loss Antenna - Rx	1.5 dB max	1.5 dB max
Tx Noise Rejection at Rx Freq.	65dB min, 85dB typ	65dB min, 85dB typ
Rx-Tx Isolation at Tx Freq.	65dB min, 85dB typ	65dB min, 85dB typ
RL	15dB min, 22dB typ	15dB min, 22dB typ
Connectors, Standard Type	N	N

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**DHL Series**

Connectors, Optional Type	BNC (f)	BNC (f)
Temperature range	-22° to 140° F • -30° to +60° C	-22° to 140° F • -30° to +60° C
Dimension	1.25 x 6.1 x 4.5 inches • 31 x 155 x 115 mm	1.25 x 6.1 x 4.5 inches • 31 x 155 x 115 mm
Weight	1.6 lbs • 0.75 kg	1.6 lbs • 0.75 kg

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