

MOBILE BAND REJECT DUPLEXERS

Coaxial Type • 340 - 960 MHz

DCL Series

Product Features

- Coaxial type duplexers.
- Band reject configurations.
- From 340 to 960 MHz.
- Semi-rigid coaxial cables are used to improve Tx to Rx isolation.
- Six TEM silver plated copper resonators, housed in 6063-T6 alodine finished aluminum cavities.
- Standard connectors are N female, BNC female and TNC female available upon request.

Applications

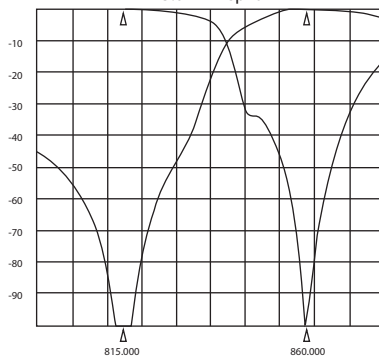
Digital and analog wireless radio, low power repeaters, mobile full duplex radios, etc.



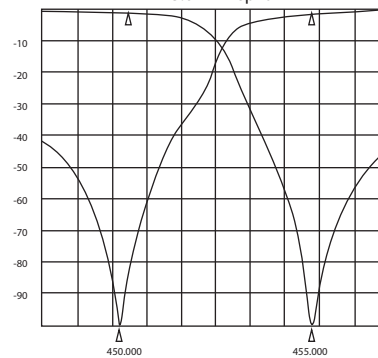
Mobile Duplexer DCL4533



DCL9533 - TYPICAL RESPONSE CURVES
45.0 MHz split



DCL4533 - TYPICAL RESPONSE CURVES
5.0 MHz split



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Specifications	DCL3533A	DCL3533B
Frequency Range	340 – 400 MHz in 2 subranges (340-370/370-400)	340 – 400 MHz in 2 subranges (340-370/370-400)
Tx–Rx Separation	5.0 MHz (4 to 6)	10.0 MHz (8 to 12)
Tx-Rx Band Width	0.025 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	---	---
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 8.7 inches • 31 x 155 x 221 mm	1.25 x 6.1 x 8.7 inches • 31 x 155 x 221 mm
Weight	2.2 lbs • 1 kg	2.2 lbs • 1 kg

Specifications	DCL4533A	DCL4533B
Frequency Range	400 – 520 MHz in 4 subranges (400-440/440-470 470-490/490-512)	400 – 520 MHz in 4 subranges (400-440/440-470 470-490/490-512)
Tx–Rx Separation	5.0 MHz (4 to 7)	10.0 MHz (7 to 13)
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	BNC
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 8.15 in • 31 x 155 x 201 mm	1.25 x 6.1 x 8.15 in • 31 x 155 x 201 mm
Weight	2.2 lbs • 1 kg	2.2 lbs • 1 kg

Specifications	DCL7533N	DCL9533A9N	DCL9533AN
Frequency Range	764 – 806 MHz	800 – 960 MHz	800 – 960 MHz
Tx–Rx Separation	30.0 MHz (26 to 34)	9.0 to 15.0 MHz	15.0 to 30.0 MHz
Tx-Rx Band Width	0.025 MHz	0.050 MHz	0.050 MHz
Continuous Power Input, Max	50 W	50 W	50 W
Insertion Loss Tx - Antenna	1.5 dB max	1.5 dB max	1.5 dB max
Insertion Loss Antenna - Rx	1.5 dB max	1.5 dB max	1.5 dB max
Tx Noise Rejection at Rx Freq.	75dB min, 90dB typ	75dB min, 90dB typ	75dB min, 90dB typ
Rx-Tx Isolation at Tx Freq.	75dB min, 90dB typ	75dB min, 90dB typ	75dB min, 90dB typ
RL	15dB min, 22dB typ	15dB min, 22dB typ	15dB min, 22dB typ
Connectors, Standard Type	N	N	N
Connectors, Optional Type	---	---	---
Temperature range	-22° to 140° F • -30° to +60° C		

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Dimension	1.25 x 6.1 x 5.75 in 31 x 155 x 146 mm	1.25 x 6.1 x 5.1 in 31 x 155 x 129.6 mm	1.25 x 6.1 x 5.1 in 31 x 155 x 129.6 mm
Weight	1.6 lbs • 0.75 kg	1.6 lbs • 0.75 kg	1.6 lbs • 0.75 kg

Specifications	DCL9533B1N	DCL9533B2N
Frequency Range	800 – 880 MHz	880 – 960 MHz
Tx–Rx Separation	30.0 to 80.0 MHz	30.0 to 80.0 MHz
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	---	---
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 5.1 inches • 31 x 155 x 129.6 mm	1.25 x 6.1 x 8.15 inches • 31 x 155 x 201 mm
Weight	2.2 lbs • 1 kg	2.2 lbs • 1 kg