

COMPACT BASE STATION DUPLEXERS

136 - 512 MHz

DHV Series

Product Features

Fiplex DHV Series, is a new kind of compact base station duplexers, designed for applications where high power and small space is a complicated trade-off.

These duplexers use six high Q (helical or coaxial) resonant cavities, interconnected in a band pass - band reject configuration which allows a small Tx-Rx separation.

Also, the fine design plus the rugged construction, ensures to the units long term and thermal stability.

Duplexers of this Series are supplied with brackets for installation on a chassis. Optionally, the units can be supplied on a open tray for 19" rack.

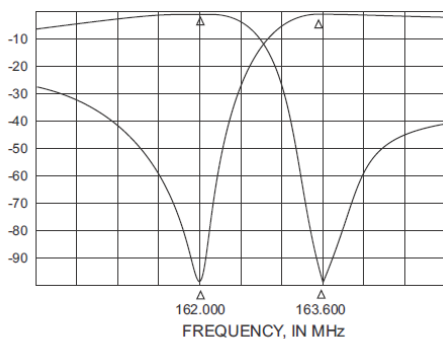
Standard connectors are N female.



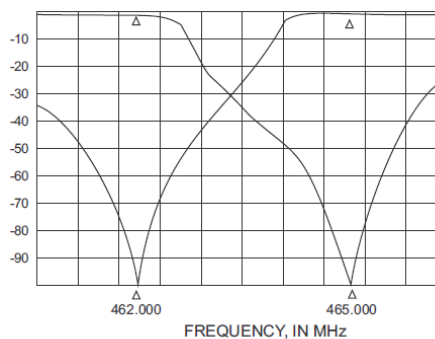
Compact Base Station Duplexer DHV1633



DHV 1633 • TYPICAL RESPONSE CURVES
1.6 MHz split



DHV 4533 • TYPICAL RESPONSE CURVES
3.0 MHz split



COMPACT BASE STATION DUPLEXERS

136 - 512 MHz

DHV Series

Specifications	DHV1633
Frequency Range	136 - 174 MHz (136-149 / 149-164 / 164-174)
Tx-Rx Separation, Min	1.6 MHz
Tx-Rx Separation, Typ	3.0 MHz
Tx-Rx Band Width	0.050 MHz
Continuous Power Input, Max-	150 W
Insertion Loss Tx - Antenna	1.5 dB @ 1.6 MHz split 0.9 dB @ 3.0 MHz split
Insertion Loss Antenna - Rx	1.5 dB @ 1.6 MHz split 0.9 dB @ 3.0 MHz split
Tx Noise Rejection at Rx Freq.	90 dB
Rx - Tx Isolation at Tx Freq.	90 dB
RL	22 dB
Impedance	50 Ω
Connectors, Standard Type	N(f)
Connectors, Optional	TNC(f) - BNC(f)
Temperature range	-22° to 140° F • -30° to +60° C
Dimension	2 x 12 x 7 inches • 50.8 x 304.8 x 177.8 mm
Weight	5.3 lbs • 2.4 kg

Specifications	DHV4533
Frequency Range	400 - 512 MHz (400-440 / 440-512)
Tx-Rx Separation, Min	3.0 MHz
Tx-Rx Separation, Typ	10.0 MHz
Tx-Rx Band Width	0.050 MHz
Continuous Power Input, Max	150 W
Insertion Loss Tx - Antenna	1.5 dB @ 3.0 MHz split 0.7 dB @10.0MHz split
Insertion Loss Antenna - Rx	1.5 dB @ 3.0 MHz split 0.7 dB @10.0MHz split
Tx Noise Rejection at Rx Freq.	90 dB
Rx - Tx Isolation at Tx Freq.	90 dB
RL	22 dB
Impedance	50 Ω
Connectors, Standard Type	N(f)
Connectors, Optional	TNC(f) - BNC(f)
Temperature range	-22° to 140° F • -30° to +60° C
Dimension	2 x 12 x 9 inches • 50.8 x 304.8 x 228.6 mm
Weight	6.4 lbs • 2.9 kg

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