

COMPACT BASE STATION DUPLEXERS

DHV Series • 136 - 500 MHz



Fiplex DHV Serie, 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 - bandreject 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 Serie 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.

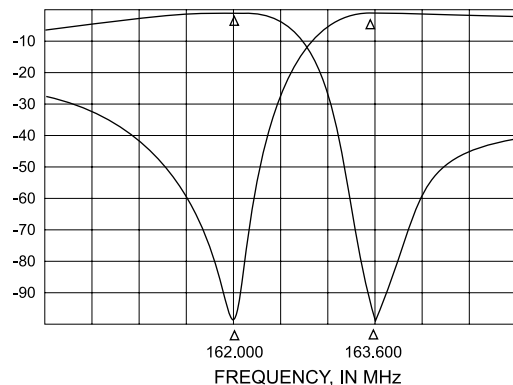


DHV1633 w/ optional 19" tray

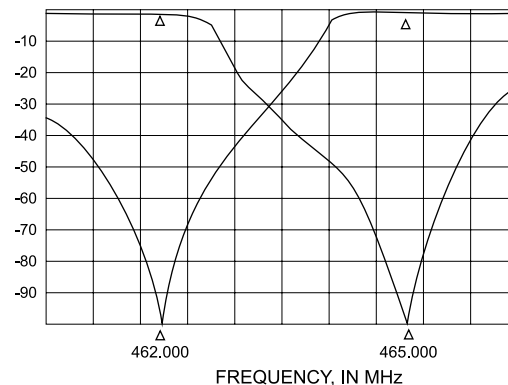


DHV 4533

DHV 1633 • TYPICAL RESPONSE CURVES
1.5 MHz split



DHV 4533 • TYPICAL RESPONSE CURVES
3.0 MHz split



ELECTRICAL SPECIFICATIONS	DHV 1633	DHV 2233	DHV 4533
Frequency Range - MHz	136 - 174	220 - 280	400 - 500
Tx-Rx Separation, Min - MHz	1.6	2.2	3.0
Tx-Rx Separation, Typ - MHz	3.0	5.0	10.0
Tx-Rx Band Width – MHz	0.050	0.050	0.050
Continuous Power Input, Max- W.	150	150	150
Insertion Loss Tx - Antenna, dB	1.5 @ 1.6 MHz split 0.9 @ 3.0 MHz split	1.6 @ 2.2 MHz split 1.0 @ 5.0 MHz split	1.2 @ 3.0 MHz split 0.7 @ 10.0MHz split
Insertion Loss Antenna - Rx, dB	1.5 @ 1.6 MHz split 0.9 @ 3.0 MHz split	1.6 @ 2.2 MHz split 1.0 @ 5.0 MHz split	1.2 @ 3.0 MHz split 0.7 @ 10.0MHz split
Tx Noise Rejection at Rx Freq. - dB	90	90	90
Rx - Tx Isolation at Tx Freq. - dB	90	90	90
RL - dB	22	22	22
Connectors, Standard Type	N(f)	N(f)	N(f)
Connectors, Optional	TNC(f) - BNC(f)	TNC(f) - BNC(f)	TNC(f) - BNC(f)
Temperature range - °C	- 30 to + 60	- 30 to + 60	- 30 to + 60

MECHANICAL SPECIFICATIONS	DHV 1633	DHV 2233	DHV 4533
Height – in (mm)	2 (50.8)	2 (50.8)	2 (50.8)
Width – in (mm)	12 (304.8)	12 (304.8)	12 (304.8)
Depth – in (mm)	7 (177.8)	7 (177.8)	9 (228.6)
Weight – lbs (kg)	5.3 (2.4)	5.3 (2.4)	6.4 (2.9)

ORDERING INFORMATION • SUBRANGES

DHV1633-1: 136 - 149MHz
DHV1633-2: 149 - 164MHz
DHV1633-3: 164 - 174MHz

DHV2233-1: 220 - 240MHz
DHV2233-2: 240 - 260MHz
DHV2233-3: 260 - 280MHz

DHV4533-1: 400 - 440MHz
DHV4533-2: 440 - 500MHz