

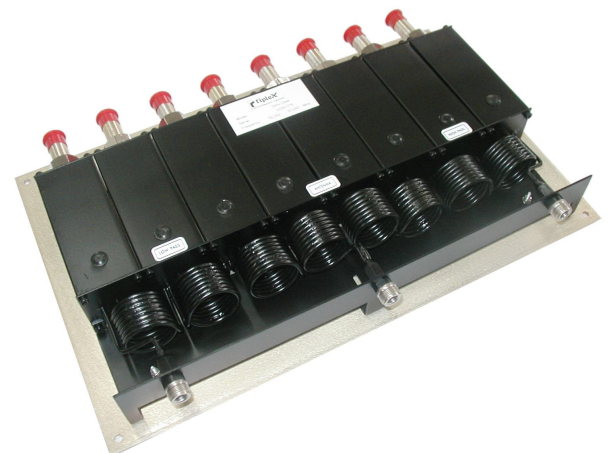
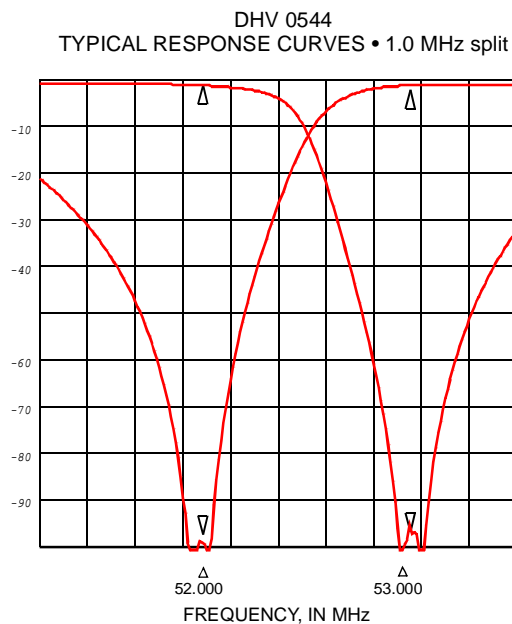
LOW BAND COMPACT BASE STATION DUPLEXER DHV0544 • 25 - 55 MHz



The Fiplex DHV Series is a new kind of compact Base Station duplexer designed for low band applications (25-55 MHz) where high power and small space is a complicated trade-off. These duplexers utilize eight high Q (helical) resonant cavities, interconnected in a band pass-band reject configuration which allows close spaced transmit-to-receive frequency operation. The unique design, plus the rugged construction ensures the duplexers long term performance stability. Duplexers in this DHV Series are supplied with brackets for installation on a flat chassis. Optionally, they may be supplied on a open tray for mounting into a 19" rack. Standard connectors are N female. Other connector types are available upon request.



DHV 0544 mounted on a 19" tray



DHV 0544 mounted on a wall mount plate

| ELECTRICAL SPECIFICATIONS | DHV 0544-1 | DHV 0544-2 | DHV 0544-3 |
|-------------------------------------|--|--|--|
| Frequency Range - MHz | 25 – 30 | 30 – 40 | 40 – 55 |
| Tx–Rx Separation, Min - MHz | 0.8 | 0.8 | 0.8 |
| Tx–Rx Separation, Typ - MHz | 3.0 | 3.0 | 3.0 |
| Tx-Rx B.W. @ 1MHz split – MHz | 0.100 | 0.100 | 0.100 |
| Continuous Power Input, Max- W. | 150 | 150 | 150 |
| Insertion Loss Tx - Antenna - dB | 1.4 @ 1.0 MHz split 0.9 @ 3.0 MHz split | 1.4 @ 1.0 MHz split 0.9 @ 3.0 MHz split | 1.4 @ 1.0 MHz split 0.9 @ 3.0 MHz split |
| Insertion Loss Antenna - Rx - dB | 1.4 @ 1.0 MHz split 0.9 @ 3.0 MHz split | 1.4 @ 1.0 MHz split 0.9 @ 3.0 MHz split | 1.4 @ 1.0 MHz split 0.9 @ 3.0 MHz split |
| Tx Noise Rejection at Rx Freq. - dB | 90 @ 1.0 MHz split 100 @3.0 MHz split | 90 @ 1.0 MHz split 100 @3.0 MHz split | 90 @ 1.0 MHz spli 100 @3.0 MHz split |
| Rx-Tx Isolation at Tx Freq. - dB | 90 @ 1.0 MHz split 100 @3.0 MHz split | 90 @ 1.0 MHz split 100 @3.0 MHz split | 90 @ 1.0 MHz spli 100 @3.0 MHz split |
| 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 0544-1 | DHV 0544-2 | DHV 0544-3 |
|----------------------------------|-------------------|-------------------|-------------------|
| Height – in (mm) | 2 RU (89) | 2 RU (89) | 2 RU (89) |
| Width – in (mm) | 12 (304.8) | 12 (304.8) | 12 (304.8) |
| Depth – in (mm) | 14 (355.6) | 14 (355.6) | 14 (355.6) |
| Weight – lbs (kg) | 15.0 (6.8) | 15.0 (6.8) | 15.0 (6.8) |

NOTES:

1. Splits indicated above, are for standard models. If different split is required, please contact Sales Department.
2. Exact frequencies are required when ordering