

R&S®FT224 VHF/UHF DIPLEXER

100 MHz to 174 MHz

225 MHz to 450 MHz

For connecting a broadband antenna to transceivers with separate VHF and UHF outputs



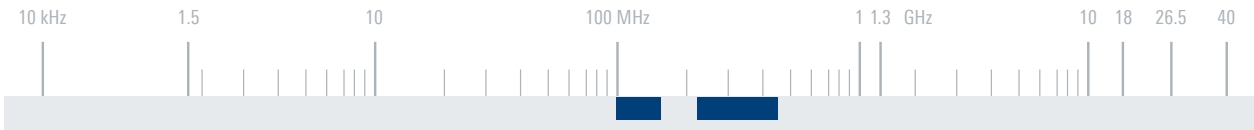
The R&S®FT224 VHF/UHF diplexer allows the connection of a broadband antenna (e.g. the R&S®HK014E VHF/UHF coaxial dipole) to transceivers with separate VHF and UHF outputs or to separate VHF and UHF transceivers.

The diplexer has a maximum input power of 200 W CW and 800 W PEP. These values (for one channel) also apply for simultaneous operation of both channels.

Key facts

- ▶ Low passband attenuation
- ▶ High stopband attenuation
- ▶ 200 W CW/800 W PEP
- ▶ Compact design
- ▶ Versatile applications



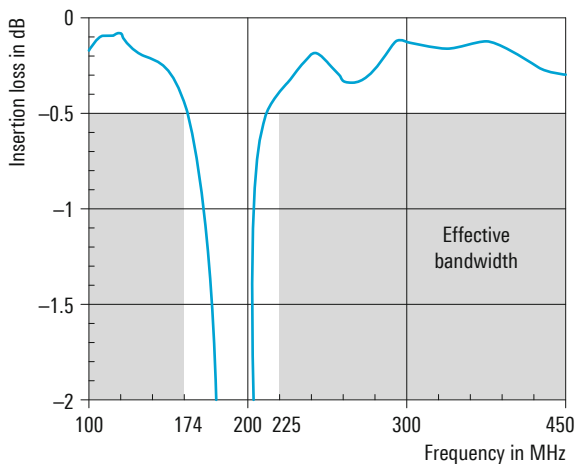


| Specifications | | |
|-----------------------------|-------------|---|
| Frequency range | | 100 MHz to 174 MHz, 225 MHz to 450 MHz |
| Input impedance | | 50 Ω |
| VSWR | | ≤ 1.5 (with 50 Ω termination) |
| Insertion loss | in passband | ≤ 0.5 dB; typ. 0.25 dB (VHF/UHF) |
| | in stopband | > 30 dB (VHF/UHF) |
| Max. input power | | 200 W CW, 800 W PEP (per channel with simultaneous operation) |
| Connectors | | 3 × N female |
| MTBF | | > 100000 h |
| Operating temperature range | | -20°C to +55°C |
| Dimensions | W × H × L | approx. 130 mm × 50 mm × 130 mm (5 in × 2 in × 5 in) |
| Weight | | approx. 0.5 kg (1 lb) |

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| Ordering information | Type | Order No. |
|--|------------|--------------|
| VHF/UHF diplexer, color: squirrel grey (RAL7000) | R&S®FT224 | 0525.5117.04 |
| VHF/UHF diplexer, color: squirrel grey (RAL7000), with conformal coating | R&S®FT224 | 0525.5117.05 |
| Recommended extras | | |
| VHF/UHF coaxial dipole | R&S®HK014E | 4095.5000.02 |
| VHF/UHF coaxial dipole | R&S®HK033 | 4062.8369.02 |

Typical filter characteristic



Application example for R&S®FT224

