

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



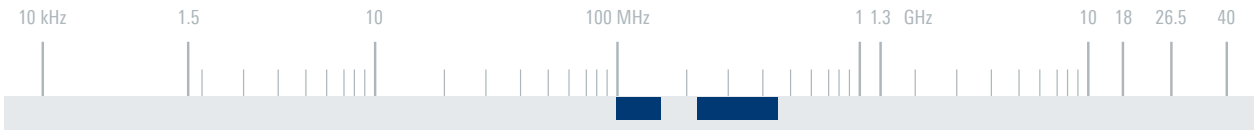
The R&S®FT224 VHF/UHF diplexer allows the connection of a broadband antenna (e.g. the R&S®HK014E VHF/UHF coaxial dipole) to transceivers with separate VHF and UHF outputs or to separate VHF and UHF transceivers.

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





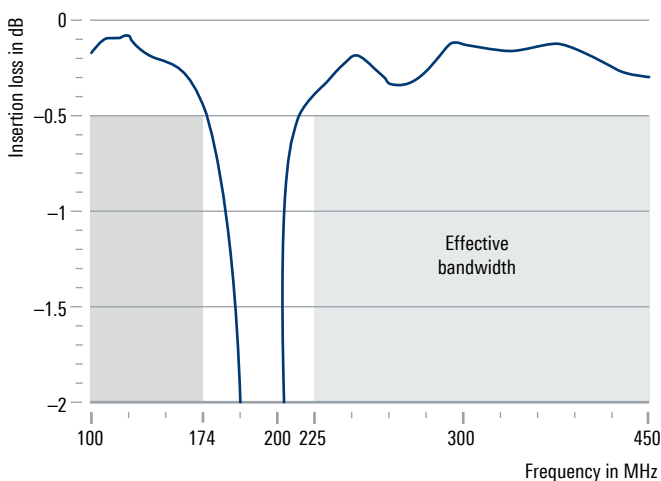
Specifications

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; 0.25 dB (typ.) (VHF/UHF)
	in stopband	> 30 dB (VHF/UHF)
Maximum 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)

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

6

Typical filter characteristic



Application example for R&S®FT224

