



150 kHz Highpass EZ-25

Conducted emission measurements in the presence of longwave mains disturbance signals

- Conducted emission measurements to EN 50065 Part 1
- Pass frequency range 150 kHz to 30 MHz
- Very steep slope acc. to CISPR/A/244/FDIS
- Suitable for any CISPR measuring receiver
- Relative attenuation >50 dB below 130 kHz
- Built-in 10 dB attenuation pad for exact 50 Ω termination of the LISN
- High pulse energy capability (50 mWs)
- Calibrated response



ROHDE & SCHWARZ

During signal transmission in low-voltage networks below 150 kHz, very high voltage levels may occur near the upper limit frequency of 148.5 kHz. This has been described in EN 50065-1. The selectivity of the CISPR measuring receiver specified in CISPR 16-1 can cause problems in the conformance of the equipment with the RFI voltage limits at 150 kHz. For this reason a highpass for an amendment of CISPR 16-1 has been defined in CISPR/A/244/FDIS, which can be used in front of the CISPR measuring receiver in order to improve the selectivity and so to achieve the values defined in part 1 of EN50065, without affecting the passband of the measuring receiver.

Problems with high interfering voltages in the range below 150 kHz can also occur with EUTs, which are not involved with low-voltage signalling. Only very few EMC standards specify limits in the frequency range below 150 kHz. Therefore equipment manufacturers use suppression filters with extremely steep slopes to meet the requirements above 150 kHz. In these cases measuring receivers may be overloaded, entailing measurement errors in the frequency range above 150 kHz. Highpass EZ-25 prevents this and allows exact measurements.

Specifications

Passband	150 kHz to 30 MHz
Insertion loss in passband	9.5 to 11 dB (calibration data supplied)
Stopband	below 130 kHz
Minimum attenuation in stopband	60 dB
Attenuation in the transition region	
146 kHz	<12 dB
145 kHz	>12 dB
140 kHz	>24 dB
130 kHz	>60 dB
Maximum input voltage (continuous)	137 dB μ V
Maximum impulse energy (50 μ s)	50 mWs
Connectors	BNC female
Nominal temperature range	0 to + 40 °C
Dimensions (LxWxH)	144 mm x 95 mm x 34 mm
Weight	400 g

Ordering information

Highpass 150 kHz	EZ-25	1026.7796.02
Accessories supplied	Short description with calibration data	

