

# R&S® DPS RF Step Attenuator Specifications



**75** Years of  
Driving  
Innovation

  
**ROHDE & SCHWARZ**

Electrical data		
Impedance		50 Ω
RF connectors	on front or rear panel	N female
Frequency range		DC to 2.7 GHz
Attenuation range		0 dB to 139 dB
Attenuation steps		1 dB
VSWR for attenuation values >4 dB	DC to 1.5 GHz 1.5 GHz to 2.7 GHz	<1.11 + 0.2 × frequency in GHz <1.41
Attenuation in 0 dB position	at 200 MHz at 1 GHz at 2.7 GHz	<0.4 dB <0.8 dB <1.2 dB
Attenuation uncertainty for attenuation values >4 dB		<0.28 dB + 1.8 % of attenuation value
Maximum power-handling capability	continuous wave pulse <10 μs	1 W 200 W
Maximum voltage	pulse <10 μs	150 V
Life		>5 × 10 <sup>6</sup> switching cycles <sup>1)</sup>
Switching time		<25 ms

General data		
Temperature loading	operating temperature range permissible temperature range storage temperature range	0 °C to +45 °C 0 °C to +45 °C -40 °C to +70 °C
Power supply		115/125/220/235 V ±10 %, 47 Hz to 440 Hz (10 W) NiCd battery for 5000 switching operations, built-in charger
Remote control		in line with IEC 625-1/IEEE 488
Dimensions (W × H × D)		241 mm × 110 mm × 234 mm (9.5 in × 4.3 in × 9.2 in)
Weight		3 kg (6.6 lb)

## Ordering information

Designation	Type	Order No.
RF Step Attenuator	R&S®DPS	334.7217.02
Matching Pad	R&S®RAM	358.5414.02

Specifications apply under the following conditions: 30 minutes warm-up time at ambient temperature, specified environmental conditions met, calibration cycle adhered to, and all internal automatic adjustments performed. "Typical values" are designated with the abbreviation "typ." These values are verified during the final test but are not assured by Rohde & Schwarz. "Nominal values" are design parameters that are not assured by Rohde & Schwarz. These values are verified during product development but are not specifically tested during production. Rohde & Schwarz equipment is designed for reliable operation up to an altitude of 3000 m above sea level, and for transport up to an altitude of 4500 m above sea level.

<sup>1)</sup> A switching cycle is defined as a switchover from one setting to another and back again.

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