

# Q347B Millimeter-Wave Noise Source, Q-Band

Frequency range	33 to 50 GHz
Excess noise ratio (ENR) range	33 to 42 GHz: 14 to 17 dB 42 to 50 GHz: 9 to 16 dB
Maximum SWR (reflection coefficient)	Source Off: <1.57 (0.22) Source On: <1.46 (0.19)
Power required	28 V $\pm$ 1 V (automatically supplied by the Keysight 8970B Noise Figure Meter)
Maximum reverse power	100 mW
Connectors	Bias: BNC (f) Noise Output: Q-Band Waveguide UG-383/U Flange
ENR variation with voltage	< 0.005 dB/V
ENR variation with temperature	< 0.009 dB/ $^{\circ}$ C
Switching speed	< 10 $\mu$ s
Operating temperature	0 to 55 $^{\circ}$ C
Dimensions	53 mm x 108 mm x 62 mm (2.1 in x 4.3 in x 2.5 in)
Net weight	0.23 kg (0.51 lb)
Shipping weight	0.38 kg (0.85 lb)

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