



# Q347B Millimeter-Wave Noise Source, Q-Band

Data Sheet

**Frequency Range:**

33 to 50 GHz

**Excess Noise Ratio (ENR) Range:**

33 to 42 GHz: 10 to 13 dB

42 to 50 GHz: 6 to 12.5 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 Agilent 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 Temperature:**

<0.009 dB/ $^{\circ}$ C

**ENR Variation with Voltage:**

<0.005 dB/V

**Switching Speed:**

<10  $\mu$ s

**General Characteristics**

**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)



**Agilent Technologies**