

# 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<br>42 to 50 GHz: 9 to 16 dB                            |
| Maximum SWR (reflection coefficient) | Source Off: <1.57 (0.22)<br>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)<br>Noise Output:<br>Q-Band Waveguide<br>UG-383/U Flange            |
| ENR variation with voltage           | < 0.005 dB/V   |
| ENR variation with temperature       | < 0.009 dB/°C  |
| Switching speed                      | < 10 $\mu$ s   |
| Operating temperature                | 0 to 55 °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)  |

Learn more at: [www.keysight.com](http://www.keysight.com)

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: [www.keysight.com/find/contactus](http://www.keysight.com/find/contactus)

