GENERAL RADIO

1482-G

The General Radio 1482-G is a highly stable, primary-standard inductor with a nominal value of 5 mH, designed for use as a laboratory reference standard.

SPECIFICATIONS

General

Interfaces	3-terminal binding posts

Physical

Power Supply	Passive (none required)
Dimensions (W×H×D)	165 x 165 x 223 mm mm
Weight	5.3 kg

Electrical Specifications

Nominal Inductance Value	5 mH
Calibration Accuracy	±0.02% at 1 kHz
Initial Adjustment Tolerance	±0.5%
Reference Calibration Frequency	100 Hz, 400 Hz, 1 kHz
DC Resistance	4.8 Ω
Maximum Continuous AC Current	550 mA
Maximum Power Dissipation	3 W (for 40 °C temperature rise)
Typical Q at 1 kHz	6.6

Precision and Stability

Long-term Inductance Stability	±0.01% per year
Temperature Coefficient of Inductance (TCI)	+30 ppm/°C (between 20°C and 40°C)
Temperature Coefficient of Resistance (TCR)	approx. +0.39%/°C

Connections and Terminals

Terminal Configuration	3-terminal
Terminal Connector Type	GenRad 938 Binding Posts

Physical and Mechanical Properties

Internal Potting/Insulation Material	Ground cork and petrolatum mixture
Enclosure Material	Aluminum
Form Factor / Mounting Style	Benchtop

Electrical Characteristics

Resonant Frequency	340 kHz
Shunt Capacitance	44 pF

Calibration & Metrology

Calibration Temperature	23 °C

Calibration

Calibration Traceability	Traceable to NIST

TECHNOLOGY

Toroidal wound on ceramic core

APPLICATIONS

Laboratory Inductance Standard

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.