



## Description

A precision decade inductance box suitable for filter design, experimental, general purpose substitution, and DC to DC converter design. The 1053 is housed in a fully screened robust metal case and is both compact and durable, making it ideal for laboratory or field use.

Inductance is set by four easy-to-read dials that are divided into 4 decades, and provide 1 mH, 10 mH, 100 mH, and 1 H steps. The maximum setting is 11.11 H.

It is custom wound and high permeability ferrite cores ensure insignificant influence from external magnetic fields and maximum stability.

**Safety Terminals:** The front panel safety terminals are compatible with 4 mm shrouded plugs, as well as standard plugs, bare wires, and spade terminals.

## Features

- 1 mH to 10 H
- 3 % accuracy
- High stability
- In-line readout
- Compact and robust design
- Safety terminals
- Fully screened

## Specifications

Range / Resolution..... 0 to 10 H / 1 mH steps

| Decade                      | 1 mH  | 10 mH | 100 mH | 1 H    |
|-----------------------------|-------|-------|--------|--------|
| Accuracy at 1 kHz           | 3 %   | 3 %   | 3 %    | 3 %    |
| Max current per decade      | 30 mA | 70 mA | 100 mA | 150 mA |
| Average resistance per step | 0.1 Ω | 0.5 Ω | 3.4 Ω  | 20.5 Ω |
| Typical Q Factor at 1 kHz   | 75    | 175   | 280    | 250    |

Residual resistance..... Less than 0.2 Ω

Residual inductance..... Less than 1 μH

Voltage rating..... Maximum 30 V AC RMS (non-switching).  
Subject to max current rating.

Temperature coefficient..... 1 %/°C

Dimensions / Weight..... W 248 x H 62 x D 102 mm / 0.8 kg

## Ordering Information

1053.....Inductance Decade Box

C161..... Traceable calibration certificate (Factory)

C114..... Accredited calibration certificate (ISO 17025)

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.