



# 1053 Decade Inductance Box

Time Electronics

Calibration, Test & Measurement

- 1 mH to 10 H
- In-line read-out
- 3% Accuracy
- High stability
- Compact: 25 x 6 x 10 cm
- Fully Screened



The **1053** is a compact, robust and accurate decade inductance box suitable for filter design, experimental, general purpose substitution, and DC to DC converter design.

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

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

The 1053 is housed in a fully screened metal case, finished in two tone blue and black. Connection is by industry standard 4mm terminals and includes a case connection.

### 1053 Technical Specifications

<b>Inductance Range:</b>	1mH to 10H (4 decades)
<b>Accuracy at 1kHz:</b>	3% of setting
<b>End Resistance:</b>	Less than 0.2Ω
<b>End Inductance:</b>	Less than 1uH
<b>Max current per decade:</b>	30mA (1mH), 70mA (10mH), 100mA (100mH), 150mA (1H)
<b>Average resistance per step:</b>	0.1Ω (1mH), 0.5Ω (10mH), 3.4Ω (100mH), 20.5Ω (1H)
<b>Typical Q Factor at 1kHz:</b>	75 (1mH), 175 (10mH), 280 (100mH), 250 (1H)
<b>Max. Voltage:</b>	30V AC rms (non switching). Subject to max current rating.

### General Specification

<b>Dimensions:</b>	24.5 L x 6.2 W x 10 H cm
<b>Weight:</b>	0.8kg
<b>Optional Extras:</b>	Calibration Certificates – traceable to N.P.L. and UKAS

### Ordering Information

Code	Description
1053	Decade Inductance Box
9170	N.P.L. Traceable Calibration Certificate
9114	UKAS Calibration Certificate

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

**Time Electronics**, Botany Industrial Est. Tonbridge, Kent. England. TN9 1RH.

Tel: +44 (0)1732 355993 Fax: +44 (0)1732 770312 E-mail: [mail@timeelectronics.co.uk](mailto:mail@timeelectronics.co.uk)

[www.timeelectronics.co.uk](http://www.timeelectronics.co.uk)

V1b 07/05/08