



# Time Electronics

## 1053 Inductance Decade Box



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

### 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 1mH, 10mH, 100mH, and 1H steps. The maximum setting is 11.11H.

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 4mm shrouded plugs, as well as standard plugs, bare wires, and spade terminals.

### SPECIFICATIONS

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

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

Residual Resistance ..... Less than 0.2Ω

Residual Inductance ..... Less than 1μH

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

Temperature Coefficient ..... 1%/°C

Dimensions / Weight ..... W248 x H62 x D102mm / 0.8kg

### ORDERING INFORMATION

- 1053 ..... Inductance Decade Box  
 C170 ..... Factory Calibration Certificate (NPL)  
 C114 ..... UKAS Calibration Certificate (ISO 17025)

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

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