Time Electronics
1053 Inductance Decade Box

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.

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