



## 1053 Decade Inductance Box

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



### Introduction

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.

### Specifications

<b>Inductance Range:</b>	1mH to 10H (4 decades)
<b>Accuracy at 1kHz:</b>	3% of setting
<b>End Resistance:</b>	less than 0.2 ohms
<b>End Inductance:</b>	less than 1uH
<b>Max current per decade:</b>	30mA (1mH), 70mA (10mH), 100mA (100mH), 150mA (1H)
<b>Resistance per step:</b>	0.5 ohm (1mH), 2 ohm (10mH) 14 ohm( 100mH), 75 ohm (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)
<b>Dimensions:</b>	24.5 L x 6.2 W x 10 H cm
<b>Weight:</b>	0.8 kg

### Ordering Information

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