Decade Inductance Substituter

1492

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The 1492 model is an excellent choice for a highly accurate decade inductance substituter with a wide range. It is suitable for most laboratory and test applications.



1492 Decade Inductance Substituter

Features:

- 7 decade switches ranging from 1 µH to 1 H increments
- Toroidal-core inductors
- High-accuracy: ±(1% + 0.75 μH)

SPECIFICATIONS -

Inductance	Total decade	DC	Test	Representative Q Values		
per step	inductance	resistance	Frequency	at 100 Hz	at 1 kHz	at 10 kHz
1 μH	10 µH	0.02 Ω	10 kHz	0.026	0.20	2.00
10 µH	100 µH	0.07 Ω	10 kHz	0.110	1.10	10.3
100 µH	1 mH	0.2 Ω	10 kHz	0.340	3.40	30.0
1 mH	10 mH	0.8 Ω	1 kHz	0.310	3.03	23.7
10 mH	100 mH	4 Ω	1 kHz	2.76	18.6	70.4
100 mH	1 H	48 Ω	100 Hz	1.29	12.6	90.6
1 H	10 H	85 Ω	100 Hz	6.80	51.0	81.2

Inductor type:

Toroidal-core inductors for small mutual inductance and minimal effects from external fields

Range:

0 to 11.111 11 H in 1 μ H steps, controlled by seven in-line readout dials

Accuracy:

 \pm (1% + 0.75 µH) at 100 mV, 23°C, tested with Model 1689 Digirbidge, Series circuit

Zero inductance:

< 0.75 µH

Terminals:

Two 5-way, gold-plated, tellurium-copper binding posts with low thermal emf and low resistance, plus one binding post connected to case for shielding.

Switch type:

Multiple solid silver contacts. To allow continuous rotation, a blank position is added on all decades.

Environmental conditions:

Operating conditions: 10°C to 40°C; <50% RH Storage: -40°C to 70°C

Mechanical:

Dimensions: 43.9 cm W x 8.9 cm H x 10.2 cm D (17.3" x 3.5" x 4") Weight: 2.4 kg (5.3 lb)