RS-CS-LS Series

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Economical, indispensable tools for a variety of uses in engineering, design, troubleshooting, or service. These small, rugged substituters can satisfy most requirements.

Features:

Direct reading — No fumbling with multiple slide or rotary switches

The IET family of digital substituters uses convenient side-by-side thumbwheel switches. Simply dial in the desired values and use.

- Standard accuracies of 1%, 0.1%, and 0.05% available.
- Broad choice of standard and optional models.
 A full line of standard substituters satisfies most requirements.
- Direct readings eliminate potential mistakes that come from rotary or slide-switch boxes.
- For easy value readings, ranges are separated by colorcoded switches and numbers.
- The units are small, rugged, and portable.
- Combination units, such as Resistance and Capacitance Substituter (RCS-500), are available.

Options:

- Shielded case with grounding post
- Panel mounting
- Protection fuse

See also:

- Decade box product guide
- LCR meter product guide

R-Box

RS Series: Digital Resistance Substituter



Available from 0.01 Ω to 299,999,999.9 Ω (RS-200 Shown)



C-Box
CS Series: Digital
Capacitance Substituter

Available from 1 pF to 999.999 9 μF (CS-300 Shown)



L-Box

LS Series: Digital Inductance Substituter

Available from 1 µH to 99.999 99 H (LS-400 Shown)



RC-Box

RCS Series: Digital
Resistance-Capacitance Substituter

Combines RS and CS units in one box (RCS-500 Shown)



Standard Models

RS Series -- Standard Models

Model	RS-200	RS-201	RS-200W	RS-201W	RS-200-2W	RS-201W-2W	RS-RTD	RCS-500	RCS-502
Туре	Resistance	Precision Resistance	Wide-Range Resistance	Wide-Range Precision Resistance	High-Power Resistance	High-Power Wide- Range Resistance	RTD Simulator	Resistance/ Capacitance	Precision Resistance/ Capacitance
Accuracy*	±(1% + 25 mΩ)	$\pm (0.1\% + 25 \text{ m}\Omega)$	\pm (1% + 36 mΩ)	±(0.1% + 36 mΩ)**	±(1% + 25 mΩ)	±(0.1% + 36 mΩ)**	\pm (0.1% + 25 mΩ)		
Decades	7		9		7	9	6	j !	
Range	0 to 9,999,999 Ω		0 - 99,999,999.9 Ω		0 - 9,999,999 Ω	0 - 99,999,999.9 Ω	0-9,999.99 Ω	Combines	Combines
Resolution	1 Ω		0.1 Ω		1 Ω	0.1 Ω	0.01 Ω	RS-200 and	RS-201 and
Ratings***	0.5 W (rising to 2.5 W at step 9)			2 W (rising to 10 W at step 9) 0.5 W		0.5 W	CS-300	CS-301	
Residual	≤0.39 Ω (≤0.	.056 Ω/decade)	\leq 0.5 Ω (\leq 0.056 Ω /decade)		≤0.39 Ω	≤0.5 Ω	≤0.34 Ω		
Components	Metal-film resistors; Manganin wire ≤0.9 Ω								
Mechanical		АВ		Α	В	A	(С	

CS Series -- Standard Models

Model	CS-300	CS-301	CS-301L	CS-300H	
Туре	Capacitance	Precision Capacitance	Precision, Low Capacitance	High Capacitance	
Accuracy*	<10 µF: ±(4% + 3 pF) ≥10 µF: ±7%	<10 μF: ±(1% + 3 pF) ≥10 μF: ±7%	±(1% + 3 pF)	<10 μF: ±(4% + 3 pF) ≥10 μF: ±7%	
Decades		6	7		
Range	0 to 99.	999 9 µF	0 - 9.999 999 μF	0 - 999.999 9 μF	
Resolution	100	0 pF	1 pF	100 pF	
Ratings***	100 V (25 V for 10 - 100 μF)		100 V	100 V (25 V for 10 - 1000 μF)	
Residual	≤42 pF (≤7	pF/decade)	≤49 pF (≤7 pF/decade)		
Components	1-900 pF: mica 0.001 - 0.9 μF: Polypropylene 1-9 μF: Polyester 10-900 μF: Tantalum				
Test Cond.	1 kHz; 1 Vrms; for ≥10 μF: 120 Hz, series model; 23°C				
Mechanical	В				

LS Series -- Standard Models

Model	LS-400A	LS-400	LS-400L			
Туре	Inductance	High Inductance	Low Inductance			
Accuracy*	±(2% + 0.5 μH)					
Decades	3	4	6			
Range	0 to 999 mH	0 - 9.999 H	0-999.999 mH			
Resolution	1 mH	1 mH	1 μH			
Frequency Response	See http://www.ietlabs.com/ls-series-inductance-decade-box.html					
Residual	\leq 0.17 Ω ; \leq 1 μ H (\leq 0.056 Ω /decade)	\leq 0.23 Ω ; \leq 1 μ H (\leq 0.056 Ω /decade)	≤0.34 Ω; ≤1.5 μH (≤0.056 Ω/decade)			
Components	Toroidal Inductors					
Test Cond.	1 kHz, 0.1 Vrms; series model; 23°C					
Mechanical		В	С			

*Accuracy:

After subtraction of residual impedance Traceable to SI

**Accuracy for RS-201W & RS-201W-2W:

<10 MΩ: as shown above ≥10 MΩ: 0.2%

***Rating:

Subject to switch maximum dielectric strength of 750 Vdc peak or 550 Vrms, switching

Switches:

10-position thumbwheel switches make-before-break

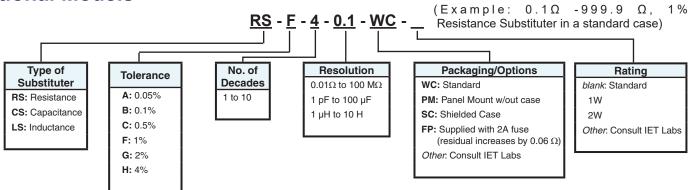
Maximum switch voltage:

750 Vdc peak or 550 Vrms, switching

Mechanical:

A: 8.1 x 7.9 x 5.6 cm; 184 g (3.2" x 3.1" x 2.2"; 6.5 oz) **B:** 12.1 x 7.9 x 5.6 cm; 235 g (4.7" x 3.1" x 2.2"; 8.3 oz) **C:** 18.8 x 8.4 x 6.4 cm; 410 g (7.4" x 3.3" x 2.5"; 14 oz)

Optional Models





X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Decade Boxes category:

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Other Similar products are found below:

0510-9708-01(H) 380400 380405 RS-200 RS-200-SC CDB-10 RDB-10 RDB-10-NIST