SRX-SRC Series

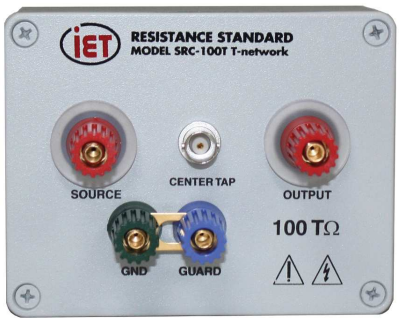
Economical high performance resistance standards.

Features:

- Very stable - as low as 10 ppm/yr
- Excellent temperature coefficient - as low as 1 ppm/°C
- Rugged
- Wide range of values - 1 mΩ to 10 TΩ
- Custom values are available
- Optional transit case
- High voltage operation - up to 5000 V for SRC series

SRC-T-NETWORK New

Economical high resistance, high voltage standard designed using a T-network. These high resistance standards are designed for calibration of megohmmeters and electrometers that have a 3 terminal connection with guard.



SRC-100T-TN High Resistance Standard

SRX SERIES

Designed for use as a reference or working standard in industrial, research, and educational laboratories.

SRX Series Resistance Standard 190 kΩ and under

SRX Series Resistance Standard 1 MΩ and over

SRC SERIES

Economical high resistance, high voltage standards for applications requiring values from 190 MΩ up to 10 TΩ.

SRC Maximum Voltage: 5000 V

SRC Series Resistance Standard Two Terminals with Kel-F Washers and Guard Terminal

SPECIFICATIONS

Calibration Conditions:
At 23°C, low power, traceable to SI.
Connections as indicated in table.

Terminals:
Gold plated, tellurium copper, high current, heavy duty,low thermal-emf binding position standard 3/4 inch spacing. A case **GROUND** terminal is provided on all units.

Dimensions: 8.6 cm H x 10.5 cm W x 12.7 cm D (3.4" x 4.15" x 5")

Operating Temperature Range: 15 to 30°C.

Transit Case:
Optional **Model SRC-100** lightweight transit case with handle, suitable for transporting and storing two units. The case provides mechanical protection and insulation from temperature changes during transportation or shipping.

Optional **Model SRC-100-5** lightweight transit case with handle, suitable for transporting and storing 5 SRC/SRX resistance standards.

SRC-100-5 Lightweight transit case for 5 standards

SRX-SRC Series

SPECIFICATIONS

Model SRX-	Nominal (Ω)	Initial Adjustment to Nominal (ppm)	Calibration Uncertainty (Typical) (ppm)	Stability 1 year (ppm)	Tempco (ppm/°C)	Resistor type	Max. Power* (W)	Power Coef.** (ppm/mW)	Max. Voltage (V)	Max. Current (A)	Terminals
0.001	0.001	200	200	50	20	Manganin strip	0.2	0.1	0.015	14 A	4 bp's + gnd
0.0019	0.0019	200	200	50	20		0.38	0.1	0.03	14 A	
0.002	0.002	200	200	50	20		0.4	0.1	0.02	14 A	
0.01	0.01	200	100	50	20	Manganin wire	0.2	0.1	0.15	4.5 A	
0.019	0.019	200	100	50	20		0.38	0.1	0.3	4.5 A	
0.1	0.1	200	60	50	20		0.2	0.1	0.3	1.4 A	
0.19	0.19	200	60	50	20		0.38	0.1	0.6	1.4 A	
0.5	0.5	20	10	20	10	Hermeti-cally sealed wirewound	0.25	0.5	0.35	0.7A	
1	1	20	10	20	10		0.25	0.5	0.5	0.5 A	
1.9	1.9	20	10	20	10		0.25	0.5	0.7	0.36 A	
10	10	10	5	10	3		0.1	0.15	1	0.1 A	
19	19	10	5	10	3		0.1	0.15	1.4	70 mA	
50	50	10	5	10	1		0.1	0.05	2.3	45 mA	
100	100	10	5	10	1		0.1	0.05	3	30 mA	
190	190	10	5	10	1		0.1	0.05	4.4	23 mA	
1K	1 k	10	5	10	1		0.1	0.05	10	10 mA	
1.9K	1.9 k	10	2	10	1		0.1	0.05	14	7 mA	
10K	10 k	10	2	10	1		0.1	0.05	30	3 mA	
19K	19 k	10	2	10	1		0.1	0.05	43	2.2 mA	
100K	100 k	10	2	10	1		0.1	0.05	100	1 mA	
190K	190 k	10	2	10	1		0.1	0.05	140	0.7 mA	
1M	1 M	20	5	15	3		0.1	0.15	316	0.3 mA	2 bp's + gnd
1.9M	1.9 M	20	5	15	3		0.1	0.15	440	0.23 mA	
10M	10 M	20	10	20	5		0.1	0.25	2000	0.1 mA	
19M	19 M	20	10	20	5		0.05	0.7	5000	50 µA	
100M	100 M	50	15	20	5	Precision thick film resistors sealed in a case	0.01	1.2	5000	10 µA	2 bp's + gnd and guard

***Maximum Power is specified for no change in resistance value beyond stated stability. See ** Power Coefficient note for maximum rated power.**

****Power Coefficient: SRX units with hermetically sealed wirewound resistors have a maximum rated power of 1.0 W. Operation at values higher than 0.1 W will cause self-heating effects on the order of 50 °C/W, assuming a 23°C ambient temperature. This will cause a reversible change in resistance beyond stated stability.**

Model SRC-	Nominal (Ω)	Initial Adjustment to Nominal (ppm)	Calibration Uncertainty (Typical) (ppm)	Stability 1 year (ppm)	Tempco (ppm/°C)	Voltage Coef. (ppm/V)	Resistor type	Max. Voltage (V)	Terminals
190M	190 M	0.1%	30	500	25	1	Precision thick film resistor sealed in a case	5000	2 bp's + gnd and guard
1G	1 G	0.5%	100	100	50				
1.9G	1.9 G	0.5%	100	500 Typically 100 ppm after first year	50				
10G	10 G	0.5%	200		50				
19G	19 G	0.5%	500		50	2			
100G	100 G	0.5%	900		50				
190G	190 G	1%	900		50				
1T	1 T	2%	2500		100				
1.9T	1.9 T	2%	2500	1000	200				
10T	10 T	3%	10000	2000	300				
10T-TN	10 T	1%	750	500	25	1	Precision thick film T-Network		3 bps + gnd + bnc
20T-TN	20 T								
50T-TN	50 T								
100T-TN	100 T								

ORDERING INFORMATION

Standard model Select from table above
Custom value SRX-*XXX* or SRC-*XXX*
Transit case for SRL units SRC-100, for 2 units
SRC-100-5, for 5 units

Options:
Triax and bnc terminals are also available
Combination units in single housing available