

High Power Decade Resistance Substituter

HPRS Series

Page 1 of 2

Economical, high-performance, high-power resistance for all laboratory, test, and calibration needs.



Standard 6-Decade HPRS High Power Decade Resistance Substituter

Features:

- Resistance from 1 mΩ to 10 MΩ
- Wide choice: 3 to 9 decade units
- Accuracy: 0.5% or 1%
- Power Rating : 225 W/decade, 250 W max. or higher
- Rack mounting available
- Special and custom configurations available

See also:

- More economical: **RS Series**
- Higher accuracy: **HARS-X** or **HARS-LX Series**
- Higher resistance: **HRRS Series**
- Higher voltage: **HRRS-5kV** and **HRRS-10kV Series**
- RTD simulators: **RTD Series** -- without zero subtraction
- Programmable models: **PRS Series**

SPECIFICATIONS

Resistance per step	Total decade resistance	Max current*	Max power per step* (W)	Temperature coefficient (ppm/°C)	Resistor Type
1 mΩ	0.009 Ω	8 A	0.036	±50	Resistance Wire
10 mΩ	0.09 Ω	6 A	0.36	±50	
100 mΩ	0.9 Ω	6 A	3.6	±20	
1 Ω	9 Ω	5 A	25	-20 to +80	Power Film
10 Ω	90 Ω	1.5 A	25	-20 to +80	
100 Ω	900 Ω	0.5 A	25	-20 to +80	
1 kΩ	9 kΩ	150 mA†	25†	-20 to +80	
10 kΩ	90 kΩ	50 mA†	25†	-20 to +80	Wirewound/ metal film
100 kΩ	900 kΩ	V limit†	V limit†	-20 to +80	
1 MΩ	9 MΩ	V limit†	V limit†	±50	Wirewound/film

*Subject to maximum of 250 W max. per unit

†Subject to 1000 V (dc+ac) peak max

Accuracy:

after subtraction of zero resistance, at 23°C; traceable to SI

Option F: ±(1% + 20 mΩ)

Option C: ±(0.5% + 20 mΩ)

Zero Resistance:

<5 mΩ per decade

Terminals:

Two five-way binding posts and one ground post electrically connected to case.

Dimensions:

43.9 cm W x 8.9 cm H x 10.2 cm D (17.3" W x 3.5" H x 4" D)

Weight:

2.4 kg (5.3 lbs), nominal



HPRS - 30 ampere unit



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