

## 6-Dial Decade Resistance Box RTD Simulator

### FEATURES

- Accuracy  $\leq 0.005\% + 2 \text{ m}\Omega$
- Temperature coefficient of resistance  $\leq 5 \text{ ppm}/^\circ\text{C}$
- Long-term stability in resistance  $\leq 50 \text{ ppm/year}$  (storage life)
- Low contact resistance switch and three clip-typed contacts in parallel
- Low thermal EMF terminal
- Double electrical shielding protective against noise
- Utilizing Bulk Metal® Foil ultra precision resistance inside

### MASS

Approx. 4.5 kg (10 lbs)

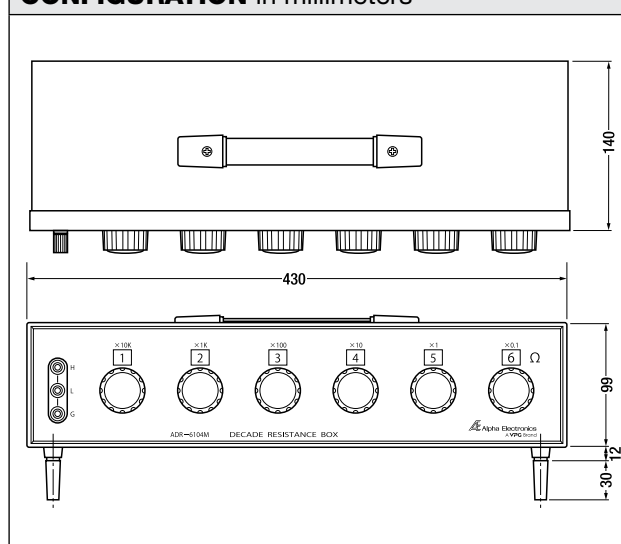
### DESCRIPTION

The ultra precision resistors, the rotary switches, the output terminals and the double shielded construction are all features of the 6-Dial Decade Resistance Box with  $6\frac{1}{2}$  digit readings.

Resistors used in the 6-Dial Decade Resistance Box are ultra precision Bulk Metal® Foil resistors manufactured by Alpha Electronics Corp., assuring high stability over time and environment change. Rotary switches have very low contact resistance as three clip-typed contacts are connected in parallel. The three contacts assure higher mechanical reliability mechanically. Output terminals have very low thermal EMF, using rectangular wires of low thermal resistance material in a well-designed circuit configuration. Double shielded construction inhibits interference of environmental noise.



### CONFIGURATION in millimeters



### SPECIFICATIONS

Series	Min. Resistance Value	Max. Resistance Value	Resolution	Dial Resistance Value/Step ( $\Omega$ )						Accuracy	Max. Wattage
				Dial 1	Dial 2	Dial 3	Dial 4	Dial 5	Dial 6		
ADR-6102M	0.100 $\Omega$	1.111210 k $\Omega$	0.001	100	10	1	0.1	0.01	0.001	$\pm(0.005\% + 2 \text{ m}\Omega)$	0.5W
ADR-6103M	0.10 $\Omega$	11.11110 k $\Omega$	0.01	1k	100	10	1	0.1	0.01		
ADR-6104M	0.1 $\Omega$	111.1110 k $\Omega$	0.1	10k	1k	100	10	1	0.1		
ADR-6105M	1 $\Omega$	1.111110 M $\Omega$	1	100k	10k	1k	100	10	1	$<1 \text{ M}\Omega$ $\pm(0.01\% + 50 \text{ m}\Omega)$ $\geq 1 \text{ M}\Omega \pm 0.1\%$	0.5W
ADR-6106M	10 $\Omega$	11.11110 M $\Omega$	10	1M	100k	10k	1k	100	10		

# Mouser Electronics

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