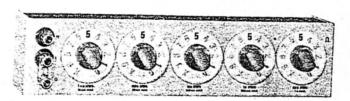
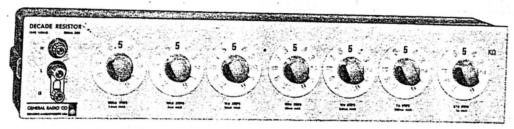
## TYPE 1434 DECADE RESISTORS



1434-N



1434-G

Figure 1. Type 1434-N and -G Decade Resistor boxes.

## SPECIFICATIONS

## Accuracy

Accuracy Long-term: Two-year warranty applies to the tolerances given barring damage by excessive current. Tolerances apply at low currents and at dc or low-frequency ac. Over-all: The resistance difference between that at any setting and at the zero setting is equal to the indicated value  $\pm (0.05\% + 5~\mathrm{m}\Omega)$ .\*\* Incremental: See table. This is the accuracy of the change in resistance between any two settings of the same dial. Zero Resistance: Approx 3 m $\Omega$  per dial at low frequencies except for the 1434-QC for which it is approx 30 m $\Omega$ . Max Current: See table; these values also appear on the panel of each decade box. When this max current is passed through a decade, the temporary change in value will be less than the accuracy specification. Currents appreciably higher than this will cause permanent damage.

Total R of Decade	Resistance Per step	Incremental Accuracy *	Max Current	Inductance Per step		
1 Ω	0.1 Ω	±3.0%	1 A	0.01 μΗ		
10 Ω	1.0 Ω	±0.3%	0.3 A	0.05 µH		
100 Ω	10 Ω	±0.08%	160 mA	0.08 µH		
1 kΩ	100 Ω	±0.05%	50 mA	0.18 µH		
10 kΩ	1 kΩ	±0.05%	16 mA	1.8 µH		
100 kΩ	10 kΩ	±0.05%	5 mA	22.0 µH		
1 ΜΩ	100 kΩ	±0.05%	1.6 mA			
100 Ω**	1 Ω/div		200 mA	1		

Temperature Coefficient:  $<\pm10$  ppm/°C at room temperature, except for the low-valued units where the  $\pm0.4\%$ °C temperature coefficient of the zero resistance must be added.

Frequency Characteristics: Generally similar to those of the 1433

Switches: Multiple, solid-silver-alloy switches are used to obtain low and stable zero resistance.

Terminals: Jack-top binding posts on standard 44-in. spacing. A shield terminal is also provided. The 1434-G has lug connections accessible from the rear.

Mounting: All types except the 1434-G are in small cabinets for bench use. The 1434-G is also designed for bench use but, with the addition of mounting hardware, becomes 3½-in. high, 19-in. relay-rack unit.

## Mechanical Data:

Models	Width		He	Height		pth	Net- Weight		Shipping Weight	
	in.	mm	in.	mm	in.	mm	lb.	kg.	ю	kg
M, N, P, QC	1134	300	23/4	70	41/4	110	3	1.4	4	1.9
B, X	1334	350	23/4	70	414	110	344	1.5	4	1.9
G (bench)	17%	442	31/2	89	5	130	6%	2.8	Z	3.2
G (rack)	193.	485	31/2	.89	31/2	89	6	2.8	47	3.2

At low currents and

l low frequencies.	**Except 1434-QC — add $\pm 1~\Omega$ if rheostat moved from zero.					
Catalog Number	Description	Total Resistance (Ω)	Resistance Per Step	Number of Decades		
	Decade Resistor					
1434-9714	1434-N	11,111	0.1 Ω	5		
1434-9713	1434-M	111,110	1.0 Ω	5		
1434-9716	1434-P	1,111,100	10 Ω	5		
1434-9576	1434-QC	1,111,105	1 Ω/div	4 + rheostat		
1434-9702	1434-B	1,111,100	1.0 Ω	6 .		
1434-9724	1434-X	111,111	0.1 Ω	6		
1434-9707	1434-G	1,111,111	0.1 Ω	7		

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