

Rheostats

(Potentiometers) Wirewound



MODEL C

Model Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm Ref.)	Diameter "D" (in./mm Ref.)	Dimension "C" (in./mm Ref.)	Shaft torque	Rotation (±5°)
C RCS/RCL	7.5	10.0-5K	enclosed	305	0.875/22.23	0.515/ 13.08	—	0.25-3 oz. in.	300°

* See Catalog #203 for complete details.



MODEL E

Model Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm Ref.)	Diameter "D" (in./mm Ref.)	Dimension "C" (in./mm Ref.)	Shaft torque	Rotation (±5°)
E RES/REL	12.5	1.0-15K	open	305	0.688/17.46	0.875/ 22.23	0.594/15.08	1-6 oz. in.	300°
E REE	12.5	1.0-15K	enclosed	305	1.219/30.96	1.047/ 26.59	—	1-6 oz. in.	300°

* See Catalog #203 for complete details.



Dimensions for reference only; consult factory for details.

Since all rheostats/potentiometers are electro-mechanical devices, they are subject to mechanical wear and, therefore, have a finite life.

Models H, J, K, L and N are listed under UL File No. E-10946 and CSA File No. 21309 unless noted otherwise.

All rheostats are 10% tolerance.

Rheostats

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MODELS H, J, G, K, L

Model	Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm Ref.)	Diameter "D" (in./mm Ref.)	Dimension "C" (in./mm Ref.)	Shaft torque	Rotation (±5°)
H	RHS/RHL	25	1.0-25K	open	500	1.375/34.93	1.560/ 39.62	0.940/23.88	0.25-0.5 lb. in.	300°
J	RJS	50	0.5-50K	open	750	1.375/34.93	2.31 / 58.67	1.56 /39.62	0.25-2 lb. in.	300°
G	RGS	75	0.5-50K	open	900	1.750/44.45	2.75 / 69.25	1.78 /45.21	0.5-2 lb. in.	300°
K	RKS	100	0.5-50K	open	1000	1.750/44.45	3.125/ 79.38	1.91 /48.51	0.5-2 lb. in.	300°
L	RLS	150	0.5-50K	open	1200	2.000 / 50.8	4.00 /101.60	2.28 /57.91	0.5-3 lb. in.	300°

• Models H, J, G, and K also available in enclosed versions.

• See Catalog #203 for complete details.



Mounting: Panels to 0.25" (6.35mm) thick with $\frac{3}{8}$ -32 bushing and hex nut ($\frac{3}{32}$ " thick) (or with 10-32 x 0.75 flat-head screws for model L only).

MODELS P, N, R, U

Model	Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm Ref.)	Diameter "D" (in./mm Ref.)	Dimension "C" (in./mm Ref.)	Shaft torque	Rotation (±5°)
P	RPS	225	1.0-30K	open	1300	2.125/53.98	5.00 /127.00	2.97 /75.44	2.5-4 lb. in.	310°
N	RNS	300	1.0-50K	open	1225	2.375/60.33	6.00 /152.40	3.44 /87.38	2.5-5 lb. in.	320°
R	RRS	500	1.0-20K	open	1450	2.125/53.98	8.00 /203.20	4.31/109.47	4.5-7 lb. in.	325°
U	RUS	1000	1.0-20K	open	1600	3.000 / 76.2	12.00 /304.80	6.38/162.05	3.5-7 lb. in.	335°

• See Catalog #203 for complete details.



(continued)

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ORDERING INFORMATION

Code	Watts	Model	Shaft	Core
CL =	7.5	C	Locking	Enclosed
CS =	7.5	J	Standard	Enclosed
EE =	12.5	E	Locking	Open
EL =	12.5	J	Standard	Open
ES =	12.5	E	Locking	Open
GS =	75	G	Standard	Open
HL =	25	H	Locking	Open
HS =	25	J	Standard	Open
JS =	50	J	Standard	Open
KS =	100	K	Standard	Open
LS =	150	L	Standard	Open
NS =	300	N	Standard	Open
PS =	225	P	Standard	Open
RS =	500	R	Standard	Open
US =	1000	U	Standard	Open

Series —
Rheostats
Wirewound
Potentiometers

E = RoHS compliant

R C S R 5 0 E

*Check table for standard resistance values and maximum current values

Resistance Value*

Example:
R50 = 0.50Ω
1R0 = 1Ω
7R5 = 7.5Ω
250 = 250Ω
1K0 = 1,000Ω
1K75 = 1,750Ω
4K5 = 4,500Ω
50K = 50,000Ω

• RoHS compliant product available. Add "E" suffix to part number to specify.

• Made-to-order rheostats available: Contact nearest Ohmite sales office.

* Voltage rating dependent on resistance value.

Ohmic value	Part No. Prefix ➤ Suffix ▼	7.5W Model C			12.5W Model E			25W Model H			50W Model J		75W Model G		100W Model K		150W Model L		225W Model P		300W Model N		500W Model R		1000W Model U		
		RCS	RCL	Amps max.	RES	REL	REE	Amps max.	RHS	RHL	Amps max.	RJS	Amps max.	RGS	Amps max.	RKS	Amps max.	RLS	Amps max.	RPS	Amps max.	RNS	Amps max.	RRS	Amps max.	RUS	Amps max.
0.5 —R50					✓	✓	✓	3.53	✓	✓	5.00	✓	10.0	✓	12.3	✓	14.1	✓	17.3	✓	15.0	✓	17.32	✓	22.3	✓	31.6
1 —1R0												✓	7.07	✓	8.66	✓	10	✓	12.3				✓	18.2	✓	25.8	
1.5 —1R5																							✓	15.8	✓	22.4	
2 —2R0					✓	✓	✓	2.50	✓	✓	3.54	✓	5.00	✓	6.12	✓	7.07	✓	8.65	✓	10.6	✓	12.24	✓	14.1	✓	20.0
2.5 —2R5					✓	✓	✓	2.24															✓	11.2	✓	15.8	
3 —3R0					✓	✓	✓	2.04	✓	✓	2.88			✓	5.00	✓	5.75	✓	7.07	✓	8.66	✓	10.00	✓	12.9	✓	18.3
4 —4R0					✓	✓	✓					✓	3.53		3.88	✓	4.47	✓	5.48	✓	7.50	✓	8.66	✓	11.2	✓	15.8
5 —5R0					✓	✓	✓	1.58								✓	3.16	✓	3.88	✓	6.71	✓	7.75	✓	10.0	✓	14.1
6 —6R0					✓	✓	✓	1.44	✓	✓	2.04	✓	2.88			✓	3.65	✓	4.47	✓	5.49	✓	6.32				
7.5 —7R5														✓	3.16	✓	3.65	✓	4.47	✓	5.49	✓	6.32				
8 —8R0					✓	✓	✓	1.25	✓	✓	1.77	✓	2.50										✓	7.90	✓	11.2	
10 —10R		✓	✓	0.86	✓	✓	✓	1.12	✓	✓	1.58			✓	2.74	✓	3.16	✓	3.88	✓	4.74	✓	5.48		✓	10.0	
12 —12R												✓	2.04											✓	6.30	✓	8.95
12.5 —12R5																		✓	3.163	✓	3.87	✓	4.47				
15 —15R		✓	✓	0.71	✓	✓	✓	0.91	✓	✓	1.29									✓	3.87	✓	4.47	✓	6.30	✓	8.95
16 —16R												✓	1.76			✓	2.50							✓	5.60	✓	7.90
22 —22R												✓	1.50			✓	2.17							✓	4.47	✓	6.33
25 —25R		✓	✓	0.55	✓	✓	✓	0.71	✓	✓	1.00			✓	1.73	✓	2.0	✓	2.450	✓	3.00	✓	3.46	✓	4.47	✓	6.33
35 —35R		✓	✓	0.46	✓	✓	✓	0.60	✓	✓	0.845	✓	1.19					✓	2.070	✓	3.00	✓	3.46	✓	4.47	✓	6.33
40 —40R																								✓	3.54		
50 —50R		✓	✓	0.39	✓	✓	✓	0.50	✓	✓	0.707	✓	1.00	✓	1.23	✓	1.41	✓	1.735	✓	2.12	✓	2.45	✓	3.16	✓	4.47
75 —75R		✓	✓	0.32	✓	✓	✓	0.40	✓	✓	0.575	✓	0.790	✓	1.00	✓	1.15	✓	1.415	✓	1.73	✓	2.00	✓	2.52	✓	3.65
80 —80R												✓	0.790											✓	2.52	✓	3.16
100 —100R		✓	✓	0.27	✓	✓	✓	0.36	✓	✓	0.500			✓	0.866	✓	1.00	✓	1.225	✓	1.50	✓	1.73	✓	2.00		
125 —125R					✓	✓	✓	0.32	✓	✓	0.445	✓	0.630											✓	2.00		
150 —150R		✓	✓	0.22	✓	✓	✓	0.29				✓	0.575					✓	1.000	✓	1.22	✓	1.41				
160 —160R																											
175 —175R					✓	✓	✓	0.27	✓	✓	0.375													✓	1.69	✓	2.39
200 —200R		✓	✓	0.19	✓	✓	✓	0.25								✓	0.707	✓	0.865	✓	1.06	✓	1.22	✓	1.69	✓	2.39
225 —225R												✓	0.470												✓	2.11	
250 —250R		✓	✓	0.17	✓	✓	✓	0.22	✓	✓	0.316			✓	0.500	✓	0.575	✓	0.775	✓	0.866	✓	1.00	✓	1.41	✓	1.83
300 —300R												✓	0.408											✓	1.24	✓	1.83
325 —325R																								✓	1.24		
350 —350R		✓	✓	0.15	✓	✓	✓	0.19	✓	✓	0.267							✓	0.655								
400 —400R																✓	0.433	✓	0.500	✓	0.750	✓	0.866			✓	1.48
500 —500R		✓	✓	0.12	✓	✓	✓	0.16	✓	✓	0.222	✓	0.316	✓	0.388	✓	0.447	✓	0.548					✓	1.00	✓	1.41
600 —600R																								✓	1.00	✓	1.41
700 —700R																											
750 —750R		✓	✓	0.10	✓	✓	✓	0.13	✓	✓	0.182					✓	0.316	✓	0.365	✓	0.447			✓	0.817	✓	1.15
800 —800R												✓	0.250														
900 —900R																											
1000 —1K0		✓	✓	0.086	✓	✓	✓	0.10	✓	✓	0.155	✓	0.224	✓	0.274	✓	0.316			✓	0.500	✓	0.578	✓	0.707	✓	1.00
1200 —1K2																											
1250 —1K25																		✓	0.346								
1500 —1K5		✓	✓	0.071	✓	✓	✓	0.090	✓	✓	0.129			✓	0.224	✓	0.258			✓	0.387	✓	0.447	✓	0.577	✓	0.816
1600 —1K6												✓	0.176														
1750 —1K75																											
1800 —1K8																		✓	0.288								
2000 —2K0																				✓	0.336	✓	0.387	✓	0.500		
2000 —2K25																		✓	0.259								
2500 —2K5		✓	✓	0.055	✓	✓	✓	0.070	✓	✓	0.100	✓	0.141	✓	0.173	✓	0.200			✓	0.300	✓	0.346	✓	0.447	✓	0.633
3000 —3K0												✓	0.119					✓	0.224								
3500 —3K5		✓	✓	0.046	✓	✓	✓	0.060	✓	✓	0.084	✓	0.119					✓	0.182								
4500 —4K5																		✓	0.182								
5000 —5K0		✓	✓	0.039	✓	✓	✓	0.050	✓	✓	0.070	✓	0.100	✓	0.123	✓	0.141			✓ = Standard values; check availability Rheostats are silicone-ceramic coated at and above the following ohmic values: Model C: all Model E: 750Ω Model H: 2000Ω Model J: 5000Ω							
7500 —7K5					✓	✓	✓	0.041	✓	✓	0.058	✓	0.079	✓	0.100	✓	0.115	✓	0.141								
8000 —8K0												✓	0.079														
10000 —10K					✓	✓	✓	0.035	✓	✓	0.050	✓	0.079	✓	0.087	✓	0.100	✓	0.122								
12500 —12K5					✓	✓	✓	0.031	✓	✓		✓	0.070														
15000 —15K					✓	✓	✓	0.029	✓	✓	0.041	✓	0.058														
20000 —20K					✓	✓	✓		✓	✓	0.035	✓	0.050														
25000 —25K					✓	✓	✓		✓	✓	0.032	✓	0.045														
30000 —30K												✓	0.041														
40000 —40K												✓	0.035														
50000 —50K												✓	0.032														

✓ = Standard values; check availability
Rheostats are silicone-ceramic coated at and above the following ohmic values:
Model C: all
Model E: 750Ω
Model H: 2000Ω
Model J: 5000Ω
Model G: 5000Ω
Model K: 5000Ω
Model L: 7500Ω