

Rheostats

(Potentiometers) Wirewound



MODEL C

Model Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm)	Diameter "D" (in./mm)	Dimension "C" (in./mm)	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)	Diameter "D" (in./mm)	Dimension "C" (in./mm)	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

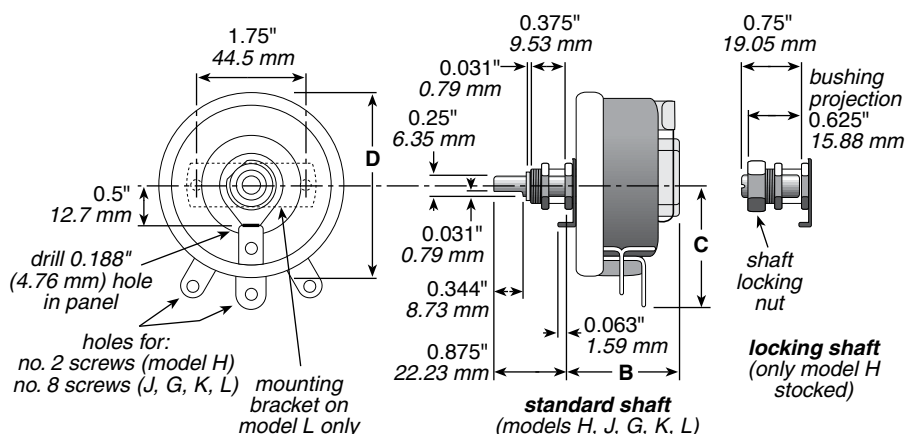
(Potentiometers) Wirewound

MODELS H, J, G, K, L

Model Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm)	Diameter "D" (in./mm)	Dimension "C" (in./mm)	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).

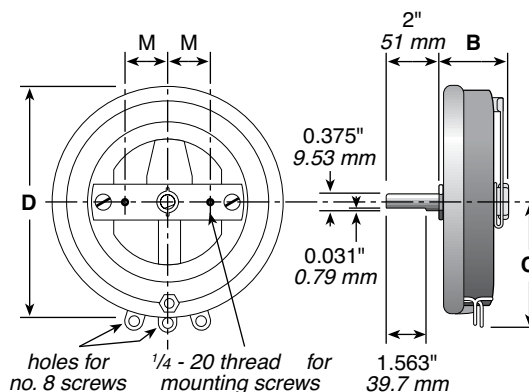
MODELS P, N, R, U

Model Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm)	Diameter "D" (in./mm)	Dimension "C" (in./mm)	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.

Dimension "M"	
P	0.875" 22.23 mm
N	1.188" 30.16 mm
R	1.5" 38.1 mm
U	3" 76.2 mm

Mounting: Panels to 1.25" (31.75mm) thick with $\frac{1}{4}$ -20 flat-head screws.



(continued)

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(Potentiometers) Wirewound

ORDERING INFORMATION

Code	Watts	Model	Shaft	Core
CL =	7.5	C	Locking	Enclosed
CS =	7.5	C	Standard	Enclosed
EE =	12.5	E	Locking	Open
EL =	12.5	E	Standard	Open
ES =	12.5	E	Standard	Open
GS =	75	G	Standard	Open
HL =	25	H	Locking	Open
HS =	25	H	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

RCSR50E

*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			
		Std. shaft	Locking	Amps max.	Std. shaft	Locking	Enclosed	Amps max.	Std. shaft	Locking	Amps max.	Std. shaft	Amps max.	Std. shaft	Amps max.	Std. shaft	Amps max.	Std. shaft	Amps max.	Std. shaft	Amps max.	Std. shaft	Amps max.	Std. shaft	Amps max.	Std. shaft	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															✓	15.8	✓	22.4		
3	—3R0				✓	✓	✓	2.04	✓	✓	2.88												✓	12.9	✓	18.3		
4	—4R0											✓	3.53		5.00	✓	5.75	✓	7.07	✓	8.66	✓	10.00	✓	11.2	✓	15.8	
5	—5R0				✓	✓	✓	1.58						✓	3.88	✓	4.47	✓	5.48	✓	6.71	✓	7.75	✓	10.0	✓	14.1	
6	—6R0				✓	✓	✓	1.44	✓	✓	2.04	✓	2.88											✓	11.2	✓	14.1	
7.5	—7R5																											
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		6.30	✓	10.0	
12	—12R											✓	2.04															
12.5	—12R5																											
15	—15R	✓	✓	0.71	✓	✓	✓	0.91	✓	✓	1.29							✓	3.163	✓	3.87	✓	4.47	✓	6.30	✓	8.95	
16	—16R											✓	1.76	✓	2.17	✓	2.50							✓	5.60	✓	7.90	
22	—22R											✓	1.50															
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						✓	3.54		
40	—40R																											
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	✓		✓	1.00	✓	1.15	✓	1.415	✓	1.73	✓	2.00	✓	3.16	✓	3.65	
80	—80R											✓	0.790											✓	2.52	✓		
100	—100	✓	✓	0.27	✓	✓	✓	0.36	✓	✓	0.500			✓	0.866	✓	1.00	✓	1.225	✓	1.50	✓	1.73			✓	3.16	
125	—125				✓	✓	✓	0.32	✓	✓	0.445	✓	0.630											✓	2.00			
150	—150	✓	✓	0.22	✓	✓	✓	0.29				✓	0.575					✓	1.000	✓	1.22	✓	1.41					
160	—160																											
175	—175				✓	✓	✓	0.27	✓	✓	0.375																	
200	—200	✓	✓	0.19	✓	✓	✓	0.25						✓	0.612	✓	0.707	✓	0.865	✓	1.06	✓	1.22	✓	1.69	✓	2.39	
225	—225											✓	0.470													✓	2.11	
250	—250	✓	✓	0.17	✓	✓	✓	0.22	✓	✓	0.316							✓	0.775					✓	1.41	✓	1.83	
300	—300											✓	0.408	✓	0.500	✓	0.575	✓		✓	0.866	✓	1.00	✓	1.24	✓		
325	—325																											
350	—350	✓	✓	0.15	✓	✓	✓	0.19	✓	✓	0.267							✓	0.655									
400	—400													✓	0.433	✓	0.500			✓	0.750	✓	0.866			✓	1.48	
500	—500	✓	✓	0.12	✓	✓	✓	0.16	✓	✓	0.222	✓	0.316	✓	0.388	✓	0.447	✓	0.548					✓	1.00	✓	1.41	
600	—600																											
700	—700																											
750	—750	✓	✓	0.10	✓	✓	✓	0.13	✓	✓	0.182			✓	0.316	✓	0.365	✓	0.447	✓	0.567	✓	0.655	✓	0.817	✓	1.15	
800	—800											✓	0.250															
900	—900																											
1000	—1K0	✓	✓	0.086	✓	✓	✓	0.10	✓	✓	0.155	✓	0.224	✓	0.274	✓	0.316			✓	0.500	✓	0.578	✓	0.707	✓	1.00	
1200	—1K2																			✓	0.433	✓	0.500					
1250	—1K25																											
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																			✓	0.358	✓	0.414					
2000	—2K0																		✓	0.336	✓	0.387	✓	0.500				
2250	—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																			✓	0.224							
3500	—3K5	✓	✓	0.046	✓	✓	✓	0.060	✓	✓	0.084	✓	0.119															
4500	—4K5																			✓	0.182							
5000	—5K0	✓	✓	0.039	✓	✓	✓	0.050	✓	✓	0.070	✓	0.100	✓	0.123	✓	0.141											
7500	—7K5				✓	✓	✓	0.041	✓	✓	0.058			✓	0.100	✓	0.115	✓	0.141									
8000	—8K0											✓	0.079															
10000	—10K				✓	✓	✓	0.035	✓	✓	0.050	✓	0.070	✓	0.087	✓	0.100	✓	0.122									
12500	—12K5				✓	✓	✓	0.031	✓	✓																		
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