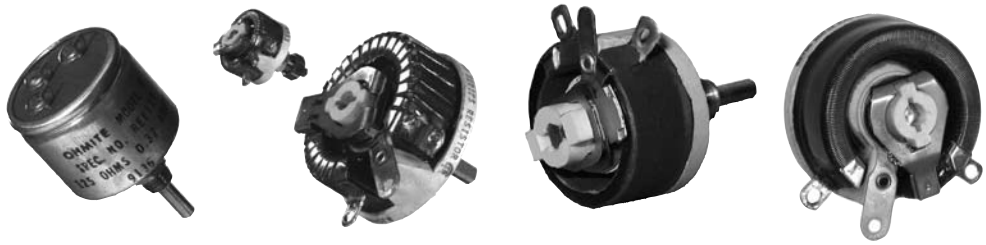
Rheostats

(Potentiometers) Wirewound

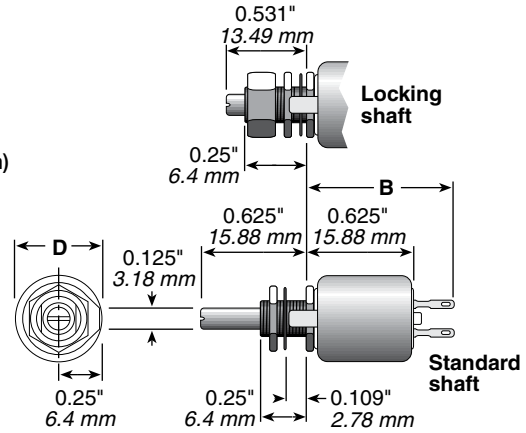


MODEL C

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.

Mounting: Panels to 0.125" (3.18mm) thick with 1/4-32 bushing and hex nut (1/16" thick).

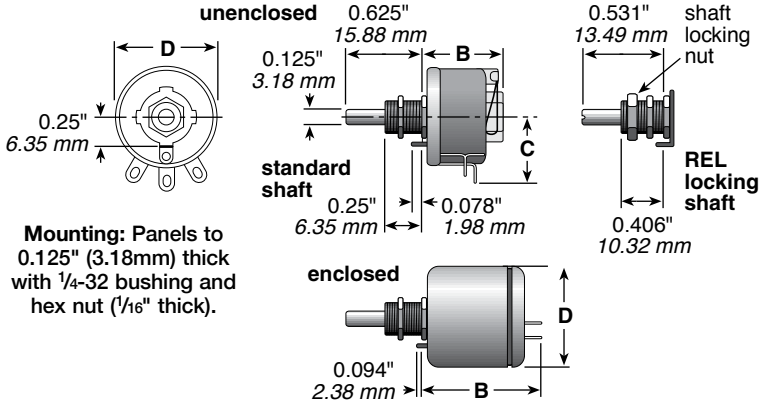


MODEL E

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.

Mounting: Panels to 0.125" (3.18mm) thick with 1/4-32 bushing and hex nut (1/16" thick).



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

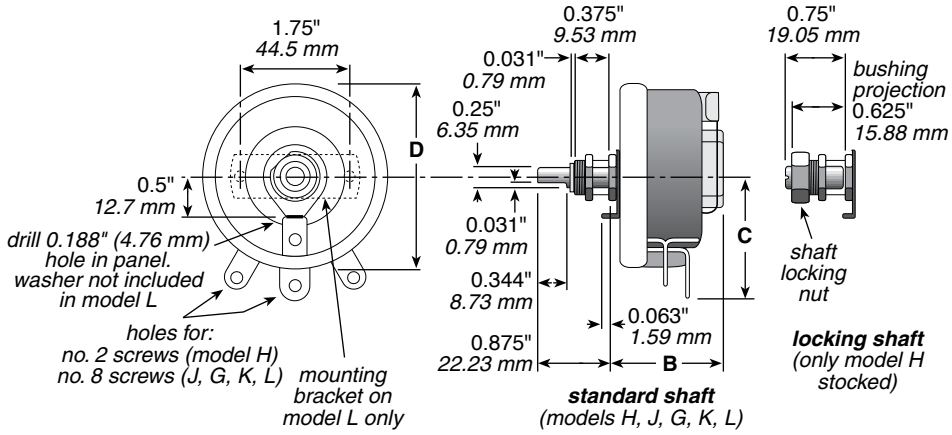
(Potentiometers) Wirewound

MODELS H, J, G, K, L

Model	Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm 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 3/8-32 bushing and hex nut (3/32" thick) (or with 10-32 x 0.75 flat-head screws for model L only).

MODELS P, N, R, U

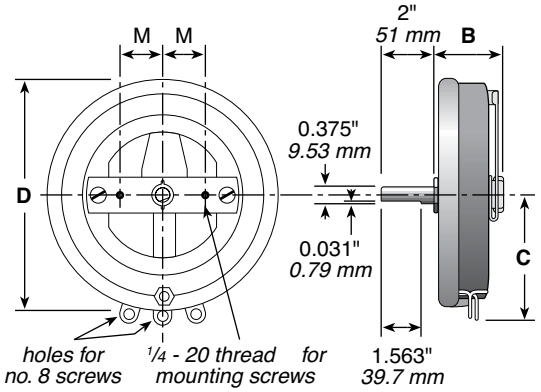
Model	Type	Watts	Ohmic range	Core	Max. Voltage (RMS)*	Behind panel "B" (in./mm Ref.)	Diameter "D" (in./mm Ref.)	Dimension "C" (in./mm Ref.)	Shaft torque	Rotation (±5°)
P	RPS	225	1.0-30K	open	1300	2.125/53.98	5.00 /127.00	2.97 /75.44	2.5-4 lb. in.	310°
N	RNS	300	1.0-50K	open	1225	2.375/60.33	6.00 /152.40	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.

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 1/4-20 flat-head screws.



(continued)

Rheostats

(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	Standard	Enclosed
EL =	12.5	E	Locking	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

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	
		Std. shaft RCS	Locking RCL	Amps max.	Std. shaft RES	Locking REL	Enclosed REE	Amps max.	Std. shaft RHS	Locking 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											✔	10.0	✔	12.3	✔	14.1	✔	17.3								
1	—1R0				✔	✔	✔	3.53	✔	✔	5.00	✔	7.07	✔	8.66	✔	10	✔	12.3	✔	15.0	✔	17.32	✔	22.3	✔	31.6
1.5	—1R5																							✔	18.2	✔	25.8
2	—2R0				✔	✔	✔	2.50	✔	✔	3.54	✔	5.00	✔	6.12	✔	7.07	✔	8.65	✔	10.6	✔	12.24	✔	15.8	✔	22.4
2.5	—2R5				✔	✔	✔	2.24																✔	14.1	✔	20.0
3	—3R0				✔	✔	✔	2.04	✔	✔	2.88			✔	5.00	✔	5.75	✔	7.07	✔	8.66	✔	10.00	✔	12.9	✔	18.3
4	—4R0											✔	3.53							✔	7.50	✔	8.66	✔	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														
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														
12.5	—12R5																							✔	6.30	✔	8.95
15	—15R	✔	✔	0.71	✔	✔	✔	0.91	✔	✔	1.29							✔	3.163	✔	3.87	✔	4.47				
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								
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			✔	1.00	✔	1.15	✔	1.415	✔	1.73	✔	2.00			✔	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													✔	1.69	✔	2.39
200	—200	✔	✔	0.19	✔	✔	✔	0.25						✔	0.612	✔	0.707	✔	0.865	✔	1.06	✔	1.22				
225	—225											✔	0.470													✔	2.11
250	—250	✔	✔	0.17	✔	✔	✔	0.22	✔	✔	0.316							✔	0.775					✔	1.41		
300	—300											✔	0.408	✔	0.500	✔	0.575			✔	0.866	✔	1.00			✔	1.83
325	—325																							✔	1.24		
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																			✔	0.567	✔	0.655				
750	—750	✔	✔	0.10	✔	✔	✔	0.13	✔	✔	0.182			✔	0.316	✔	0.365	✔	0.447					✔	0.817	✔	1.15
800	—800											✔	0.250														
900	—900																			✔	0.500	✔	0.578				
1000	—1K0	✔	✔	0.086	✔	✔	✔	0.10	✔	✔	0.155	✔	0.224	✔	0.274	✔	0.316							✔	0.707	✔	1.00
1200	—1K2																			✔	0.433	✔	0.500				
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																			✔	0.358	✔	0.414				
1800	—1K8																	✔	0.288								
2000	—2K0													✔	0.194	✔	0.224			✔	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 G: 5000Ω
Model E: 750Ω	Model K: 5000Ω
Model H: 2000Ω	Model L: 7500Ω
Model J: 5000Ω	