

# 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

## (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.



(continued)

# Rheostats

## (Potentiometers) Wirewound

### ORDERING INFORMATION

| Code | Watts | Model | Shaft    | Core     |
|------|-------|-------|----------|----------|
| CL   | 7.5   | C     | Locking  | Enclosed |
| CS   | 7.5   | J     | Standard | Enclosed |
| EE   | 12.5  | E     | Standard | Enclosed |
| EL   | 12.5  | H     | Locking  | Open     |
| ES   | 12.5  | U     | Standard | Open     |
| GS   | 75    | G     | Standard | Open     |
| HL   | 25    | L     | Locking  | Open     |
| HS   | 25    | H     | Standard | Open     |
| JS   | 50    | S     | 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     |



**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.

*\*Check table for standard resistance values and maximum current values*

| 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 Std. shaft Locking Amps max. | RCL Std. shaft Locking Amps max. | RES Std. shaft Locking Enclosed Amps max. | REL Std. shaft Locking Enclosed Amps max. | REE Std. shaft Locking Enclosed Amps max. | RHS Std. shaft Locking Amps max. | RHL Std. shaft Locking Amps max. | RUS 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                             | ✓                                | ✓             | ✓             | 10.0          | ✓             | 12.3          | ✓             | 17.3          | ✓             | 15.0         | ✓             | 17.32 | ✓ | 22.3  | ✓ | 31.6    |
| 1           | 1R0                        |                                  |                                  | ✓   | ✓   | ✓   | 5.00                             | ✓                                | ✓             | ✓             | 7.07          | ✓             | 8.66          | ✓             | 12.3          | ✓             | 10.6         | ✓             | 12.24 | ✓ | 18.2  | ✓ | 25.8    |
| 1.5         | 1R5                        |                                  |                                  | ✓   | ✓   | ✓   | 2.50                             | ✓                                | ✓             | ✓             | 5.00          | ✓             | 6.12          | ✓             | 7.07          | ✓             | 8.65         | ✓             | 10.6  | ✓ | 15.8  | ✓ | 22.4    |
| 2           | 2R0                        |                                  |                                  | ✓   | ✓   | ✓   | 2.24                             | ✓                                | ✓             | ✓             | 2.88          | ✓             | 5.00          | ✓             | 5.75          | ✓             | 7.07         | ✓             | 8.66  | ✓ | 10.00 | ✓ | 12.9    |
| 2.5         | 2R5                        |                                  |                                  | ✓   | ✓   | ✓   | 2.04                             | ✓                                | ✓             | ✓             | 3.53          | ✓             | 5.00          | ✓             | 5.75          | ✓             | 7.07         | ✓             | 8.66  | ✓ | 10.0  | ✓ | 15.8    |
| 3           | 3R0                        |                                  |                                  | ✓   | ✓   | ✓   | 1.58                             | ✓                                | ✓             | ✓             | 2.88          | ✓             | 3.88          | ✓             | 4.47          | ✓             | 5.48         | ✓             | 6.71  | ✓ | 7.75  | ✓ | 14.1    |
| 4           | 4R0                        |                                  |                                  | ✓   | ✓   | ✓   | 1.44                             | ✓                                | ✓             | ✓             | 2.04          | ✓             | 2.88          | ✓             | 3.65          | ✓             | 4.47         | ✓             | 5.49  | ✓ | 6.32  | ✓ | 10.0    |
| 5           | 5R0                        |                                  |                                  | ✓   | ✓   | ✓   | 1.25                             | ✓                                | ✓             | ✓             | 1.77          | ✓             | 2.50          | ✓             | 3.16          | ✓             | 3.65         | ✓             | 4.47  | ✓ | 5.49  | ✓ | 6.32    |
| 6           | 6R0                        |                                  |                                  | ✓   | ✓   | ✓   | 1.12                             | ✓                                | ✓             | ✓             | 1.58          | ✓             | 2.04          | ✓             | 2.74          | ✓             | 3.16         | ✓             | 3.88  | ✓ | 4.74  | ✓ | 5.48    |
| 7.5         | 7R5                        |                                  |                                  | ✓   | ✓   | ✓   | 0.91                             | ✓                                | ✓             | ✓             | 1.29          | ✓             | 1.76          | ✓             | 2.17          | ✓             | 2.50         | ✓             | 3.163 | ✓ | 3.87  | ✓ | 4.47    |
| 8           | 8R0                        | ✓                                | ✓                                | 0.86                                      | ✓   | ✓   | 1.25                             | ✓                                | ✓             | ✓             | 1.77          | ✓             | 2.50          | ✓             | 3.16          | ✓             | 3.88         | ✓             | 4.74  | ✓ | 5.48  | ✓ | 7.90    |
| 10          | 10R                        | ✓                                | ✓                                | 0.86                                      | ✓   | ✓   | 1.12                             | ✓                                | ✓             | ✓             | 1.58          | ✓             | 2.04          | ✓             | 2.74          | ✓             | 3.16         | ✓             | 3.88  | ✓ | 4.74  | ✓ | 5.48    |
| 12          | 12R                        | ✓                                | ✓                                | 0.71                                      | ✓   | ✓   | 0.91                             | ✓                                | ✓             | ✓             | 1.29          | ✓             | 1.76          | ✓             | 2.17          | ✓             | 2.50         | ✓             | 3.163 | ✓ | 3.87  | ✓ | 4.47    |
| 12.5        | 12R5                       | ✓                                | ✓                                | 0.71                                      | ✓   | ✓   | 0.91                             | ✓                                | ✓             | ✓             | 1.29          | ✓             | 1.76          | ✓             | 2.17          | ✓             | 2.50         | ✓             | 3.163 | ✓ | 3.87  | ✓ | 4.47    |
| 15          | 15R                        | ✓                                | ✓                                | 0.71                                      | ✓   | ✓   | 0.91                             | ✓                                | ✓             | ✓             | 1.29          | ✓             | 1.76          | ✓             | 2.17          | ✓             | 2.50         | ✓             | 3.163 | ✓ | 3.87  | ✓ | 4.47    |
| 16          | 16R                        | ✓                                | ✓                                | 0.55                                      | ✓   | ✓   | 0.71                             | ✓                                | ✓             | ✓             | 1.00          | ✓             | 1.73          | ✓             | 2.0           | ✓             | 2.450        | ✓             | 3.00  | ✓ | 3.46  | ✓ | 4.47    |
| 22          | 22R                        | ✓                                | ✓                                | 0.46                                      | ✓   | ✓   | 0.60                             | ✓                                | ✓             | ✓             | 0.845         | ✓             | 1.19          | ✓             | 1.73          | ✓             | 2.0          | ✓             | 2.450 | ✓ | 3.00  | ✓ | 3.46    |
| 25          | 25R                        | ✓                                | ✓                                | 0.46                                      | ✓   | ✓   | 0.60                             | ✓                                | ✓             | ✓             | 0.845         | ✓             | 1.19          | ✓             | 1.73          | ✓             | 2.0          | ✓             | 2.450 | ✓ | 3.00  | ✓ | 3.46    |
| 35          | 35R                        | ✓                                | ✓                                | 0.39                                      | ✓   | ✓   | 0.50                             | ✓                                | ✓             | ✓             | 0.707         | ✓             | 1.00          | ✓             | 1.23          | ✓             | 1.41         | ✓             | 1.735 | ✓ | 2.12  | ✓ | 2.45    |
| 40          | 40R                        | ✓                                | ✓                                | 0.32                                      | ✓   | ✓   | 0.40                             | ✓                                | ✓             | ✓             | 0.575         | ✓             | 0.790         | ✓             | 1.00          | ✓             | 1.15         | ✓             | 1.415 | ✓ | 1.73  | ✓ | 2.00    |
| 50          | 50R                        | ✓                                | ✓                                | 0.27                                      | ✓   | ✓   | 0.36                             | ✓                                | ✓             | ✓             | 0.500         | ✓             | 0.866         | ✓             | 1.00          | ✓             | 1.225        | ✓             | 1.50  | ✓ | 1.73  | ✓ | 2.00    |
| 75          | 75R                        | ✓                                | ✓                                | 0.32                                      | ✓   | ✓   | 0.40                             | ✓                                | ✓             | ✓             | 0.575         | ✓             | 0.790         | ✓             | 1.00          | ✓             | 1.15         | ✓             | 1.415 | ✓ | 1.73  | ✓ | 2.00    |
| 80          | 80R                        | ✓                                | ✓                                | 0.27                                      | ✓   | ✓   | 0.36                             | ✓                                | ✓             | ✓             | 0.500         | ✓             | 0.866         | ✓             | 1.00          | ✓             | 1.225        | ✓             | 1.50  | ✓ | 1.73  | ✓ | 2.00    |
| 100         | 100R                       | ✓                                | ✓                                | 0.22                                      | ✓   | ✓   | 0.29                             | ✓                                | ✓             | ✓             | 0.445         | ✓             | 0.630         | ✓             | 0.866         | ✓             | 1.00         | ✓             | 1.225 | ✓ | 1.50  | ✓ | 1.73    |
| 125         | 125R                       | ✓                                | ✓                                | 0.22                                      | ✓   | ✓   | 0.29                             | ✓                                | ✓             | ✓             | 0.445         | ✓             | 0.630         | ✓             | 0.866         | ✓             | 1.00         | ✓             | 1.225 | ✓ | 1.50  | ✓ | 1.73    |
| 150         | 150R                       | ✓                                | ✓                                | 0.22                                      | ✓   | ✓   | 0.29                             | ✓                                | ✓             | ✓             | 0.445         | ✓             | 0.630         | ✓             | 0.866         | ✓             | 1.00         | ✓             | 1.225 | ✓ | 1.50  | ✓ | 1.73    |
| 160         | 160R                       | ✓                                | ✓                                | 0.22                                      | ✓   | ✓   | 0.29                             | ✓                                | ✓             | ✓             | 0.445         | ✓             | 0.630         | ✓             | 0.866         | ✓             | 1.00         | ✓             | 1.225 | ✓ | 1.50  | ✓ | 1.73    |
| 175         | 175R                       | ✓                                | ✓                                | 0.19                                      | ✓   | ✓   | 0.25                             | ✓                                | ✓             | ✓             | 0.375         | ✓             | 0.612         | ✓             | 0.707         | ✓             | 0.865        | ✓             | 1.06  | ✓ | 1.22  | ✓ | 1.69    |
| 200         | 200R                       | ✓                                | ✓                                | 0.19                                      | ✓   | ✓   | 0.25                             | ✓                                | ✓             | ✓             | 0.375         | ✓             | 0.612         | ✓             | 0.707         | ✓             | 0.865        | ✓             | 1.06  | ✓ | 1.22  | ✓ | 1.69    |
| 225         | 225R                       | ✓                                | ✓                                | 0.17                                      | ✓   | ✓   | 0.22                             | ✓                                | ✓             | ✓             | 0.316         | ✓             | 0.470         | ✓             | 0.500         | ✓             | 0.655        | ✓             | 0.750 | ✓ | 0.866 | ✓ | 1.00    |
| 250         | 250R                       | ✓                                | ✓                                | 0.17                                      | ✓   | ✓   | 0.22                             | ✓                                | ✓             | ✓             | 0.316         | ✓             | 0.470         | ✓             | 0.500         | ✓             | 0.655        | ✓             | 0.750 | ✓ | 0.866 | ✓ | 1.00    |
| 300         | 300R                       | ✓                                | ✓                                | 0.15                                      | ✓   | ✓   | 0.19                             | ✓                                | ✓             | ✓             | 0.267         | ✓             | 0.433         | ✓             | 0.500         | ✓             | 0.655        | ✓             | 0.750 | ✓ | 0.866 | ✓ | 1.00    |
| 325         | 325R                       | ✓                                | ✓                                | 0.15                                      | ✓   | ✓   | 0.19                             | ✓                                | ✓             | ✓             | 0.267         | ✓             | 0.433         | ✓             | 0.500         | ✓             | 0.655        | ✓             | 0.750 | ✓ | 0.866 | ✓ | 1.00    |
| 350         | 350R                       | ✓                                | ✓                                | 0.12                                      | ✓   | ✓   | 0.16                             | ✓                                | ✓             | ✓             | 0.222         | ✓             | 0.316         | ✓             | 0.388         | ✓             | 0.447        | ✓             | 0.548 | ✓ | 0.657 | ✓ | 0.817   |
| 400         | 400R                       | ✓                                | ✓                                | 0.12                                      | ✓   | ✓   | 0.16                             | ✓                                | ✓             | ✓             | 0.222         | ✓             | 0.316         | ✓             | 0.388         | ✓             | 0.447        | ✓             | 0.548 | ✓ | 0.657 | ✓ | 0.817   |
| 500         | 500R                       | ✓                                | ✓                                | 0.10                                      | ✓   | ✓   | 0.13                             | ✓                                | ✓             | ✓             | 0.182         | ✓             | 0.250         | ✓             | 0.316         | ✓             | 0.365        | ✓             | 0.447 | ✓ | 0.567 | ✓ | 0.817   |
| 600         | 600R                       | ✓                                | ✓                                | 0.10                                      | ✓   | ✓   | 0.13                             | ✓                                | ✓             | ✓             | 0.182         | ✓             | 0.250         | ✓             | 0.316         | ✓             | 0.365        | ✓             | 0.447 | ✓ | 0.567 | ✓ | 0.817   |
| 700         | 700R                       | ✓                                | ✓                                | 0.10                                      | ✓   | ✓   | 0.13                             | ✓                                | ✓             | ✓             | 0.182         | ✓             | 0.250         | ✓             | 0.316         | ✓             | 0.365        | ✓             | 0.447 | ✓ | 0.567 | ✓ | 0.817   |
| 750         | 750R                       | ✓                                | ✓                                | 0.10                                      | ✓   | ✓   | 0.13                             | ✓                                | ✓             | ✓             | 0.182         | ✓             | 0.250         | ✓             | 0.316         | ✓             | 0.365        | ✓             | 0.447 | ✓ | 0.567 | ✓ | 0.817   |
| 800         | 800R                       | ✓                                | ✓                                | 0.086                                     | ✓   | ✓   | 0.10                             | ✓                                | ✓             | ✓             | 0.155         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 900         | 900R                       | ✓                                | ✓                                | 0.086                                     | ✓   | ✓   | 0.10                             | ✓                                | ✓             | ✓             | 0.155         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 1000        | 1K0                        | ✓                                | ✓                                | 0.086                                     | ✓   | ✓   | 0.10                             | ✓                                | ✓             | ✓             | 0.155         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 1200        | 1K2                        | ✓                                | ✓                                | 0.071                                     | ✓   | ✓   | 0.090                            | ✓                                | ✓             | ✓             | 0.129         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 1250        | 1K25                       | ✓                                | ✓                                | 0.071                                     | ✓   | ✓   | 0.090                            | ✓                                | ✓             | ✓             | 0.129         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 1500        | 1K5                        | ✓                                | ✓                                | 0.071                                     | ✓   | ✓   | 0.090                            | ✓                                | ✓             | ✓             | 0.129         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 1600        | 1K6                        | ✓                                | ✓                                | 0.071                                     | ✓   | ✓   | 0.090                            | ✓                                | ✓             | ✓             | 0.129         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 1750        | 1K75                       | ✓                                | ✓                                | 0.071                                     | ✓   | ✓   | 0.090                            | ✓                                | ✓             | ✓             | 0.129         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 1800        | 1K8                        | ✓                                | ✓                                | 0.071                                     | ✓   | ✓   | 0.090                            | ✓                                | ✓             | ✓             | 0.129         | ✓             | 0.224         | ✓             | 0.274         | ✓             | 0.316        | ✓             | 0.388 | ✓ | 0.447 | ✓ | 0.567   |
| 2000        | 2K0                        | ✓                                | ✓                                | 0.055                                     | ✓   | ✓   | 0.070                            | ✓                                | ✓             | ✓             | 0.100         | ✓             | 0.141         | ✓             | 0.173         | ✓             | 0.200        | ✓             | 0.250 | ✓ | 0.300 | ✓ | 0.346   |
| 2250        | 2K25                       | ✓                                | ✓                                | 0.055                                     | ✓   | ✓   | 0.070                            | ✓                                | ✓             | ✓             | 0.100         | ✓             | 0.141         | ✓             | 0.173         | ✓             | 0.200        | ✓             | 0.250 | ✓ | 0.300 | ✓ | 0.346   |
| 2500        | 2K5                        | ✓                                | ✓                                | 0.046                                     | ✓   | ✓   | 0.060                            | ✓                                | ✓             | ✓             | 0.084         | ✓             | 0.119         | ✓             | 0.141         | ✓             | 0.173        | ✓             | 0.200 | ✓ | 0.250 | ✓ | 0.346</ |