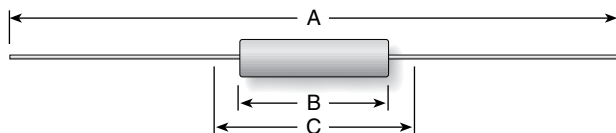
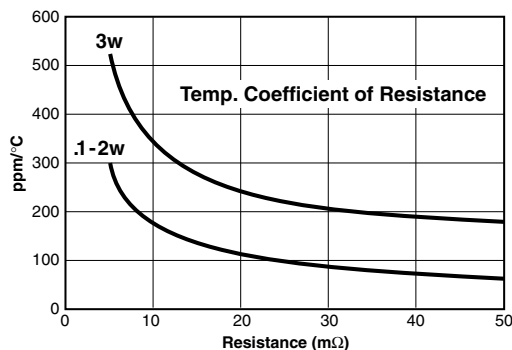


# 60 Series

## Two Terminal Metal Element Current Sense



### TCR AS A FUNCTION OF RESISTANCE



### ORDERING INFORMATION

| E = RoHS compliant |           |             |
|--------------------|-----------|-------------|
| Series             | Wattage   | Ohms        |
| 605                | 00 = 1/10 | R005 = .005 |
| 07 = 3/4           | 01 = 1/8  | R010 = .01  |
| 10 = 1.0           | 02 = 1/5  | R020 = .02  |
| 15 = 1.5           | 03 = 1/4  | R050 = .05  |
| 20 = 2.0           | 04 = 3/8  | R100 = 0.10 |
| 30 = 3.0           | 05 = 1/2  |             |

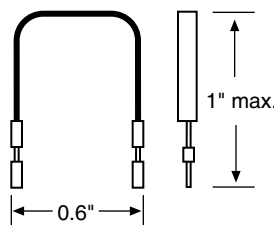
Our friendly Customer Service team can be reached at 866-9-OHMITE

These non-inductive, 3-piece welded element resistors offer a reliable low-cost alternative to conventional current sense products. With resistance values as low as 0.005Ω, and wattages from 0.1w to 3w, the 60 Series offers a wide variety of design choices.

### FEATURES

- Low inductance
- Low cost
- Wirewound performance
- Flameproof

### Special Leadform Units Available



### SPECIFICATIONS

#### Material

**Resistor:** Nichrome resistive element

**Terminals:** Copper clad steel or copper depending on style. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu

#### Derating

Linearly from 100% @ +25°C to 0% @ +275°C.

#### Electrical

**Tolerance:** ±3% standard, others available.

**Power rating:** Based on 25°C ambient.

**Overload:** 5x rated power for 5 seconds.

**Inductance:** <10nH

**To calculate max amps:** use the formula  $\sqrt{P/R}$ .

### PARTIAL LISTING OF AVAILABLE VALUES

(Contact Ohmite for others)

| Part Number | Watts | Ohms  | Tolerance | A (ref.) | Dimensions B (max.) | C (±0.010) | Lead Ga. |
|-------------|-------|-------|-----------|----------|---------------------|------------|----------|
| 600HR050E   | 0.1   | 0.05  | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 600HR033E   | 0.1   | 0.033 | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 600HR036E   | 0.1   | 0.036 | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 601HR027E   | 0.125 | 0.027 | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 601HR030E   | 0.125 | 0.03  | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 601HR025E   | 0.125 | 0.025 | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 602HR050E   | 0.2   | 0.05  | 3%        | 3.530    | 0.250               | 0.559      | 22       |
| 603HR005E   | 0.25  | 0.005 | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 603HR010E   | 0.25  | 0.01  | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 603HR015E   | 0.25  | 0.015 | 3%        | 2.440    | 0.155               | 0.655      | 24       |
| 603HR050E   | 0.25  | 0.05  | 3%        | 3.685    | 0.330               | 1.310      | 20       |
| 604HR010E   | 0.375 | 0.01  | 3%        | 3.530    | 0.250               | 0.559      | 22       |
| 604HR020E   | 0.375 | 0.02  | 3%        | 3.530    | 0.250               | 0.559      | 22       |
| 604HR025E   | 0.375 | 0.025 | 3%        | 3.530    | 0.250               | 0.559      | 22       |
| 604HR100E   | 0.375 | 0.01  | 3%        | 3.587    | 0.65                | 1.125      | 20       |
| 605HR010E   | 0.5   | 0.01  | 3%        | 3.685    | 0.355               | 1.310      | 20       |
| 605HR020E   | 0.5   | 0.02  | 3%        | 3.685    | 0.330               | 1.310      | 20       |
| 605HR030E   | 0.5   | 0.03  | 3%        | 3.685    | 0.330               | 1.310      | 20       |
| 605HR100E   | 0.5   | 0.1   | 3%        | 3.981    | 0.750               | 1.675      | 18       |
| 607HR050E   | 0.75  | 0.05  | 3%        | 3.587    | 0.630               | 1.106      | 20       |
| 607HR005E   | 0.75  | 0.005 | 3%        | 3.674    | 0.320               | 1.310      | 20       |
| 610HR005E   | 1     | 0.005 | 3%        | 3.587    | 0.650               | 1.125      | 20       |
| 610HR010E   | 1     | 0.01  | 3%        | 3.587    | 0.630               | 1.106      | 20       |
| 610HR020E   | 1     | 0.02  | 3%        | 3.587    | 0.630               | 1.106      | 20       |
| 610HR030E   | 1     | 0.03  | 3%        | 3.587    | 0.650               | 1.106      | 20       |
| 610HR050E   | 1     | 0.05  | 3%        | 3.981    | 0.750               | 1.675      | 18       |
| 615HR010E   | 1.5   | 0.01  | 3%        | 3.981    | 0.750               | 1.675      | 18       |
| 615HR020E   | 1.5   | 0.02  | 3%        | 3.981    | 0.750               | 1.675      | 18       |
| 615HR030E   | 1.5   | 0.03  | 3%        | 3.981    | 0.750               | 1.675      | 18       |
| 620HR005E   | 2     | 0.005 | 3%        | 3.981    | 0.750               | 1.675      | 18       |
| 630HR010E   | 3     | 0.01  | 3%        | 4.125    | 0.781               | 1.68*      | 18       |
| 630HR015E   | 3     | 0.015 | 3%        | 4.125    | 1.11                | 2          | 18       |
| 630HR025E   | 3     | 0.025 | 3%        | 4.125    | 1.279               | 2.125      | 18       |
| 630HR050E   | 3     | 0.05  | 3%        | 4.125    | 1.664               | 2.375      | 18       |

\*Reference dimensions; contact Ohmite for details

Check product availability at [www.ohmite.com](http://www.ohmite.com)