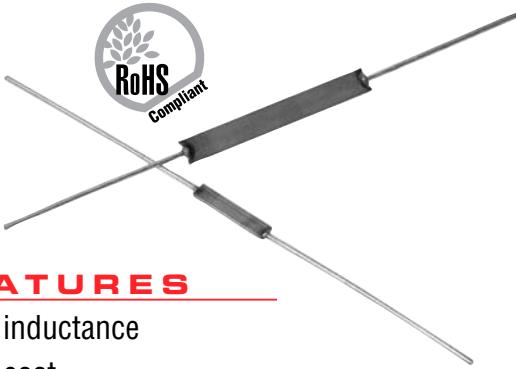


# 60 Series

## Two Terminal Metal Element Current Sense

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  $0.005\Omega$ , and wattages from 0.1w to 3w, the 60 Series offers a wide variety of design choices.



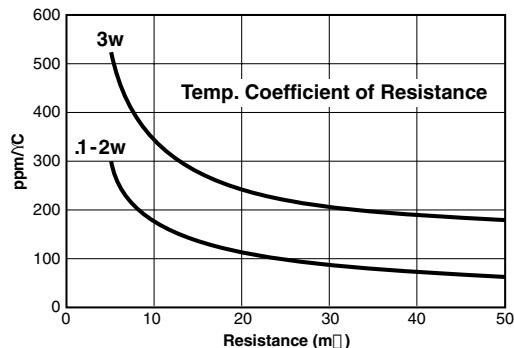
### FEATURES

- Low inductance
- Low cost
- Wirewound performance
- Flameproof

### CHARACTERISTICS

<b>Resistor</b>	Nichrome resistive element
<b>Terminals</b>	Copper clad steel or copper depending on style. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
<b>Derating</b>	Linearly from 100% @ +25°C to 0% @ +275°C
<b>Tolerance</b>	$\pm 3\%$ standard, others available
<b>Power rating</b>	Based on 25°C ambient
<b>Overload</b>	5x rated power for 5 seconds
<b>Inductance</b>	<10nH
<b>To calculate max amps</b>	use the formula $\sqrt{(P/R)}$

### TCR as a function of resistance

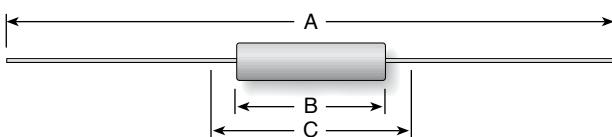


### ORDERING INFORMATION

(Partial listing; contact Ohmite for others)

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

\*Reference dimensions; contact Ohmite for details



E = RoHS compliant

6 0 5 H R 0 2 0 E

Series	Tolerance	Ohms
Wattage	F = 1%	R005 = .005
00 = 1/10	H = 3%	R010 = .01
01 = 1/8	J = 5%	R020 = .02
02 = 1/6	10 = 1.0	R050 = .05
03 = 1/4	15 = 1.5	R100 = 0.10
04 = 3/8	20 = 2.0	
05 = 1/2	30 = 3.0	