

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

FEATURES

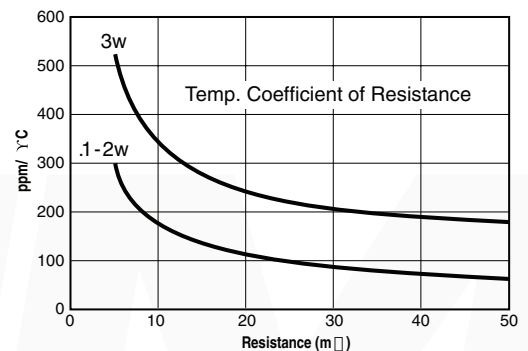
- Low inductance
- Low cost
- Flameproof
- Wirewound performance



CHARACTERISTICS

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
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 $\sqrt{P/R}$

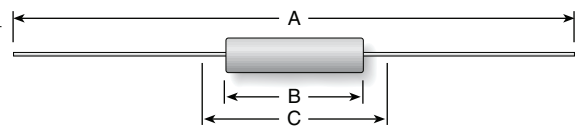
TCR as a function of resistance



ORDERING INFORMATION

(Partial listing; contact Ohmite for others) mm/(in)

Part Number	Watts	Ohms	Tolerance	A (ref.)	Dimensions B (max.)	C ±0.254mm (±0.010)	Lead Ga.
600HR050E	0.1	0.05	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
600HR033E	0.1	0.033	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
600HR036E	0.1	0.036	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
601HR027E	0.125	0.027	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
601HR030E	0.125	0.03	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
601HR025E	0.125	0.025	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
602HR050E	0.2	0.05	3%	89.662(3.530)	6.35(0.250)	14.19(0.559)	22
603HR005E	0.25	0.005	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
603HR010E	0.25	0.01	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
603HR015E	0.25	0.015	3%	61.976(2.440)	3.937(0.155)	16.637(0.655)	24
603HR050E	0.25	0.05	3%	93.629(3.685)	8.382(0.330)	33.27(1.310)	20
604HR010E	0.375	0.01	3%	89.662(3.530)	6.35(0.250)	14.19(0.559)	22
604HR020E	0.375	0.02	3%	89.662(3.530)	6.35(0.250)	14.19(0.559)	22
604HR025E	0.375	0.025	3%	89.662(3.530)	6.35(0.250)	14.19(0.559)	22
604HR100E	0.375	0.01	3%	91.109(3.587)	16.51(0.651)	28.57(1.125)	20
605HR010E	0.5	0.01	3%	93.629(3.685)	9.017(0.355)	33.27(1.310)	20
605HR020E	0.5	0.02	3%	93.629(3.685)	8.382(0.330)	33.27(1.310)	20
605HR030E	0.5	0.03	3%	93.629(3.685)	8.382(0.330)	33.27(1.310)	20
605HR100E	0.5	0.1	3%	101.127(3.981)	19.05(0.750)	42.54(1.675)	18
607HR050E	0.75	0.05	3%	91.109(3.587)	16.00(0.630)	28.09(1.106)	20
607HR005E	0.75	0.005	3%	93.331(3.674)	8.128(0.320)	33.27(1.310)	20
610HR005E	1	0.005	3%	91.109(3.587)	16.51(0.650)	28.57(1.125)	20
610HR010E	1	0.01	3%	91.109(3.587)	16.00(0.630)	28.09(1.106)	20
610HR020E	1	0.02	3%	91.109(3.587)	16.00(0.630)	28.09(1.106)	20
610HR030E	1	0.03	3%	91.109(3.587)	16.51(0.650)	28.09(1.106)	20
610HR050E	1	0.05	3%	101.127(3.981)	19.05(0.750)	42.54(1.675)	18
615HR010E	1.5	0.01	3%	101.127(3.981)	19.05(0.750)	42.54(1.675)	18
615HR020E	1.5	0.02	3%	101.127(3.981)	19.05(0.750)	42.54(1.675)	18
615HR030E	1.5	0.03	3%	101.127(3.981)	19.05(0.750)	42.54(1.675)	18
620HR005E	2	0.005	3%	101.127(3.981)	19.05(0.750)	42.54(1.675)	18
630HR010E	3	0.01	3%	104.77(4.125)	19.83(0.781)	42.67(1.68)	18
630HR015E	3	0.015	3%	104.77(4.125)	28.19(1.11)	50.80(2)	18
630HR025E	3	0.025	3%	104.77(4.125)	32.48(1.279)	53.97(2.125)	18
630HR050E	3	0.05	3%	104.77(4.125)	42.26(1.664)	60.32(2.375)	18



E = RoHS compliant		
6 0 5 H R 0 2 0 E		
Series	Tolerance	Ohms
00 = 1/10	F = 1%	R005 = .005
01 = 1/8	H = 3%	R010 = .01
02 = 1/5	J = 5%	R020 = .02
03 = 1/4		R050 = .05
04 = 3/8		R100 = 0.10
05 = 1/2		