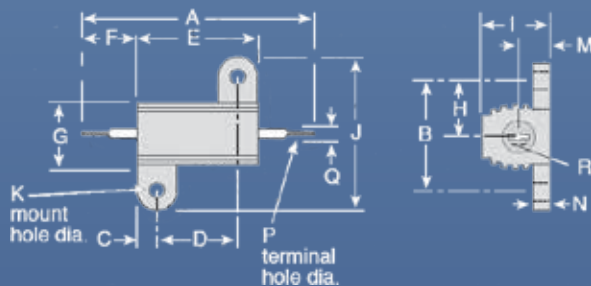
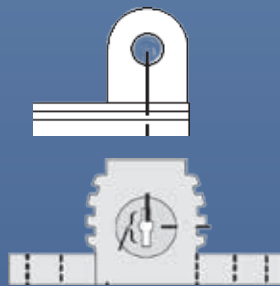
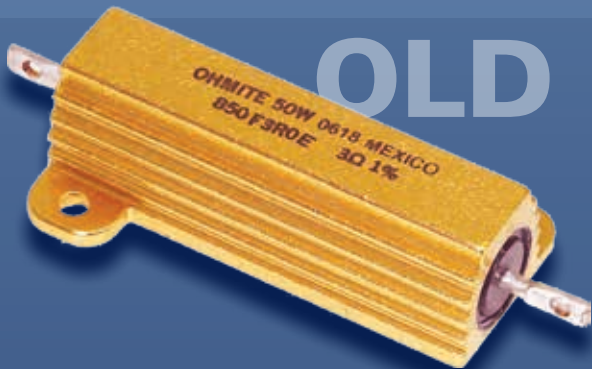


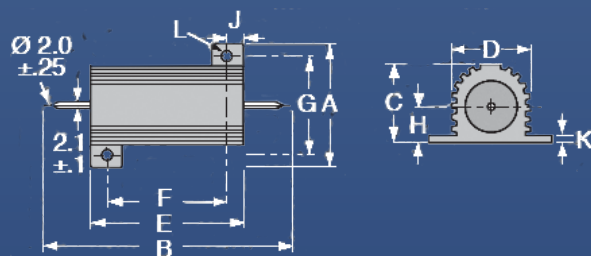
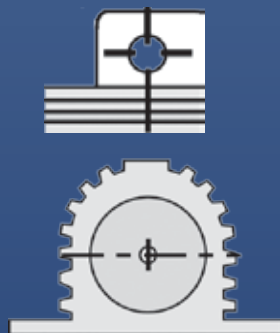
New Look for the 89 Series. Same Great Wirewound Resistor.

The 89 series of Wirewound Resistors features a new housing. These changes are reflected on the mounting tabs and extrusion profiles. Foot-design changes are from the (old) rounded-foot design to a (new) squared design. The changes

are also seen in the extrusion profile. These changes have no effect on Fit, Form, or Function of the parts. All new parts can be mounted in existing applications with no modifications. Part numbering will not change.



Model	A max.	B max.	C max.	D max.	E max.	F ±.3mm	G ±.3mm	H max.	J max.	K max.	L ±.25mm	M	N	P	Q min. AWG	R
805	1.125" / 28.59	0.49" / 12.45	0.078" / 1.98	0.444" / 11.28	0.60" / 15.24	0.266" / 6.76	0.334" / 8.48	0.245" / 6.22	0.646" / 16.41	0.093" / 2.36	0.32" / 8.13	0.133" / 3.38	0.065" / 1.65	0.05" / 1.27	16	0.085" / 2.16
810	1.375" / 34.93	0.625" / 15.88	0.943" / 2.39	0.562" / 14.28	0.75" / 19.05	0.312" / 7.93	0.438" / 11.13	0.312" / 7.93	0.812" / 20.63	0.094" / 1.8	0.406" / 10.31	0.203" / 5.16	0.094" / 2.39	0.085" / 2.16	12	0.140" / 3.56
825	1.938" / 49.23	0.781" / 19.84	0.172" / 4.37	0.719" / 18.26	1.062" / 26.98	0.438" / 11.13	0.531" / 13.49	0.391" / 9.93	1.094" / 27.79	0.125" / 3.18	0.562" / 14.28	0.281" / 7.14	0.094" / 2.39	0.085" / 2.16	12	0.140" / 3.56
850	2.781" / 7.064	0.844" / 21.00	0.188" / 4.78	1.562" / 39.68	1.938" / 49.23	4.38" / 11.13	0.594" / 15.09	0.422" / 10.72	1.156" / 29.36	0.125" / 3.18	0.625" / 15.88	0.3142" / 7.92	0.094" / 2.39	0.085" / 2.16	12	0.140" / 3.56



Model	A max.	B max.	C max.	D max.	E max.	F ±.3mm	G ±.3mm	H max.	J max.	K max.	L ±.25mm
805	0.65" / 16.5	1.18" / 30.0	0.35" / 8.8	0.33" / 8.5	0.63" / 15.9	0.44" / 11.3	0.49" / 12.4	0.18" / 4.5	0.09" / 2.4	0.07" / 1.8	0.09" / 2.4
810	0.83" / 21.0	1.44" / 36.5	0.43" / 11.0	0.44" / 11.2	0.78" / 19.9	0.56" / 14.3	0.63" / 15.9	0.22" / 5.5	0.11" / 2.8	0.07" / 1.8	0.09" / 2.4
825	1.10" / 28.0	2.01" / 51.0	0.58" / 14.8	0.56" / 14.2	1.07" / 27.3	0.72" / 18.3	0.78" / 19.8	0.30" / 7.7	0.20" / 5.2	0.10" / 2.6	0.13" / 3.2
850	1.10" / 28.0	2.85" / 72.5	0.58" / 14.8	0.56" / 14.2	1.93" / 49.1	1.56" / 39.7	0.84" / 21.4	0.33" / 8.4	0.20" / 5.2	0.10" / 2.6	0.13" / 3.2

OHMITE/ARCOL COMPETITOR CROSS REFERENCE

Note that in most cases there are two series prefixes. The first is for the standard, inductively wound version. The second is for the non-inductively wound version. Most competitors offer both. As with any resistor cross reference, the user needs to input the resistance value and tolerance.

For larger wattages, 100W and above, you will see some minor differences in the mounting holes. The ARCOL Series leaves the entire base flange in place, which assists in transferring heat

from the internal resistor into the heatsink the resistor is mounted to. Some competitors will cut away most of the base flange, leaving two offset mounting ears on each side of the resistor.

Rarely, if ever, is the presence of the full flange an issue for customers, but if the heatsink they use has pre-tapped holes for mounting the resistor, their orientation needs to change to switch between these two styles. On smaller sizes, 50W and below, the hole dimensions and mounting ears for all competitors are the same.

ARCOL Series	Ohmite Series	Military Nomenclature	ATE Electronics S.R.L.	PEC	RCD	Riedon	Royal Ohm	TE Connectivity	TT-IRC-Welwyn	Vishay	SEI	Yageo
	89/HS		RB	PHA	600	UAL	PDM	HSA	WH	RH	KAL	AHA
HS10/NHS10	805F/805NF	RE60			605/605X	UAL-5/UALN-5	PDM 5W	HSA5/NHSA5	WH5	RH005/NH005		AHA500
HS15/NHS15	810F/810NF	RE65	RB10		610/610X	UAL-10/UALN-10	PDM 10W	HSA10/NHSA10	WH10	RH010/NH010	KAL10/NKAL10	AHA10A
HS25/NHS25	825F/825NF	RE70	RB25	PHA25	615/615X	UAL-25/UALN-25	PDM 25W	HSA25/NHSA25	WH25	RH025/NH025	KAL25/NKAL25	AHA25A
HS50/NHS50	850F/850NF	RE75	RB50	PHA50	620/620X	UAL-50/UALN-50	PDM 50W	HSA50/NHSA50	WH50	RH050/NH050	KAL50/NKAL50	AHA50A
HS75/NHS75			RB75		625/625X		PDM 75W					
HS100/NHS100	HS100/HSN100	RE77	RB100		635/635X	UAL-100/UALN-100	PDM 100W	HSC100/NHSC100	WH100	RH100/NH100	KAL100/NKAL100	AHA10B
HS150/NHS150			RB150					HSA150/NHSA150				
HS200/NHS200									WH200			
HS250/NHS250	HS250/HSN250	RE80	RB250		640/640X	UAL-250/UALN-250		HSA250/NHSA250		RH250/NH250	KAL250/NKAL250	AHA25B
HS300/NHS300								HSA300/NHSA300	WH300			

CHARACTERISTICS

Tolerance (Code): Standard $\pm 5\%$ (J) and $\pm 10\%$ (K). Also available $\pm 1\%$ (F), $\pm 2\%$ (G) and $\pm 3\%$ (H)

Tolerance for Low Ω Values: Typically $\geq R05 \pm 5\% \leq R047 \pm 10\%$

Temperature Coefficients: Typical values $< 1K$ 100ppm Std. $> 1K$ 25ppm Std. For lower TCRs please contact Ohmite

Insulation Resistance (Dry): 10,000 M Ω minimum

Power Dissipation: At high ambient temperature dissipation derates linearly to zero at 200°C

Ohmic Values: From R005 to 100K depending on wattage size

Low Inductive (NHS): Specify by adding N before HS Series code, e.g. NHS50

NHS Ohmic Value: Divide standard HS maximum value by 4

NHS Working Volts: Divide standard HS maximum working voltage by 1.414

HEAT DISSIPATION

While the use of proprietary heat sinks with lower thermal resistances is acceptable, uprating is not recommended. For maximum heat transfer it is recommended that a heat sink compound be applied between the resistor base and heat sink chassis-mounting surface. It is essential that the maximum hot-spot temperature of 200°C is not exceeded; therefore, the resistor must be mounted on a heat sink of correct thermal resistance for the power being dissipated.



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