KAL Series

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Features:

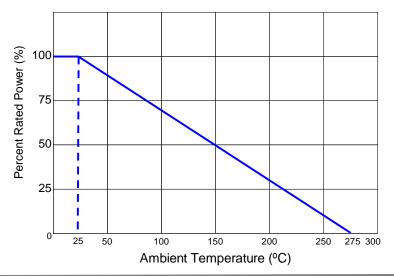
Aluminum Housed Chassis Mount Resistor

- Aluminum housing for maximum heat dissipation
- Complete welded construction
- 10-50W tinned copper terminals
- 100–250W threaded terminals
- Centerless ground steatite or alumina cores
- Molded epoxy body for heat transfer
- Non-inductive winding available (NKAL)
- Suitable for electrical component grade wash process and can be conformally coated or potted
- RoHS compliant, lead-free and halogen-free

Type / Code	MIL-R-26 Ref.	Power Rating (Watts @ 25°C)		Dielectric Withstanding	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance		
		Commercial	MIL	Voltage		0.1%	0.5%	1%, 3%, 5%
KAL10	RE-65	12.5W	10W	1,000 VAC	$<0.1\Omega = \pm 100$ ppm $0.1\Omega - 9.9\Omega = \pm 50$ ppm $10\Omega - 49\Omega = \pm 30$ ppm $>50\Omega = \pm 20$ ppm	1 - 1K	1 - 1K	0.05 - 30K
KAL25	RE-70	25W	20W	2 000 \/A C				0.05 - 51.1K
KAL50	RE-75	50W	30W	3,000 VAC 2,500 VAC				0.05 - 150K
KAL100	RE-77	100W	75W			-	1 - 500	0.1 - 3K
KAL250	RE-80	250W	120W				-	0.1 - 3K
NKAL10	-	12.5W		1,000 VAC	$ \begin{array}{r} <0.1\Omega \ = \ \pm 100 \text{ppm} \\ 0.1\Omega \ - \ 9.9\Omega \ = \ \pm 50 \text{ppm} \\ 10\Omega \ - \ 49\Omega \ = \ \pm 30 \text{ppm} \\ > 50\Omega \ = \ \pm 20 \text{ppm} \end{array} $	1 - 499	1 - 499	0.05 - 15K
NKAL25		25W		3,000 VAC 2,500 VAC				0.05 - 24.9K
NKAL50		50W	-					0.05 - 75K
NKAL100		100W				-	1 - 249	0.1 - 1.5K
NKAL250		250W					-	0.1 - 1.5K

Performance Characteristics							
Test	Test Condition	Result					
Short time Overload	5x wattage rating - 5 seconds	ΔR ± (0.5% + 0.05Ω) MAX					
Moisture resistance	Temp 40°C moisture 95% CDC 100V for 500 hours	ΔR ± (0.5% + 0.05Ω) MAX					
Load life	Load rating (chasis is mounted) 1.5 hours ON, 0.5 hours OFF. Repeated for 1000 hours	ΔR ± (1.5% + 0.05Ω) MAX					

Power Derating Curve:





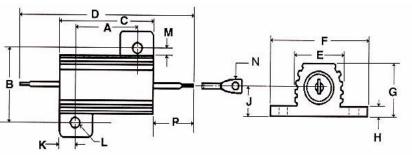


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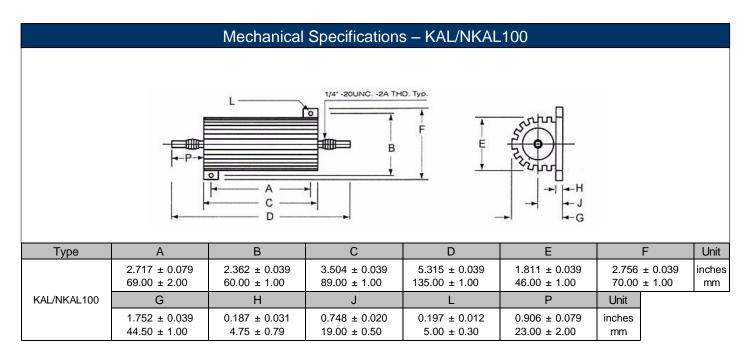
Aluminum Housed Chassis Mount Resistor

Resistive Product Solutions

Mechanical Specifications – KAL/NKAL10, 25, 50

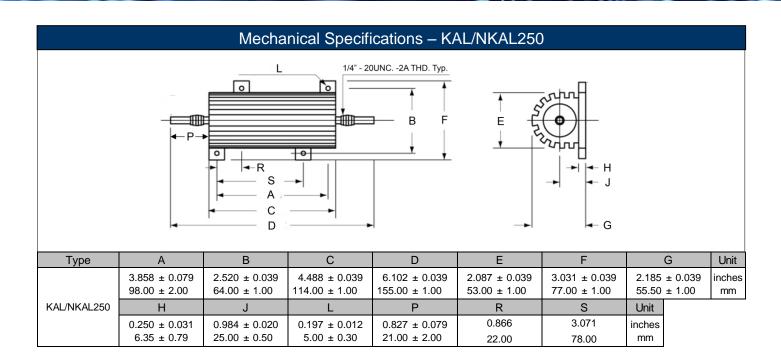


Туре	А	В	С	D	E	F	G	Unit
KAL/NKAL10	0.562 ± 0.005	0.625 ± 0.005	0.750 ± 0.031	1.375 ± 0.062	0.420 ± 0.015	0.800 ± 0.015	0.390 ± 0.031	inches
	14.27 ± 0.13	15.88 ± 0.13	19.05 ± 0.79	34.93 ± 1.57	10.67 ± 0.38	20.32 ± 0.38	9.91 ± 0.79	mm
KAL/NKAL25	0.719 ± 0.005	0.781 ± 0.005	1.062 ± 0.031	1.938 ± 0.062	0.550 ± 0.015	1.080 ± 0.015	0.546 ± 0.031	inches
	18.26 ± 0.13	19.84 ± 0.13	26.97 ± 0.79	49.23 ± 1.57	13.97 ± 0.38	27.43 ± 0.38	13.87 ± 0.79	mm
KAL/NKAL50	1.563 ± 0.005	0.844 ± 0.005	1.968 ± 0.031	2.781 ± 0.062	0.630 ± 0.015	1.140 ± 0.015	0.610 ± 0.031	inches
	39.70 ± 0.13	21.44 ± 0.13	49.99 ± 0.79	70.64 ± 1.57	16.00 ± 0.38	28.96 ± 0.38	15.49 ± 0.79	mm
Туре	Н	J	K	L	М	N	Р	Unit
KAL/NKAL10	0.075 ± 0.010	0.190 ± 0.015	0.093 ± 0.010	0.093 ± 0.005	0.102 ± 0.015	0.086 ± 0.005	0.312 ± 0.062	inches
	1.91 ± 0.25	4.83 ± 0.38	2.36 ± 0.25	2.36 ± 0.13	2.59 ± 0.38	2.18 ± 0.13	7.92 ± 1.57	mm
KAL/NKAL25	0.088 ± 0.010	0.260 ± 0.015	0.172 ± 0.010	0.125 ± 0.005	0.115 ± 0.015	0.086 ± 0.005	0.438 ± 0.062	inches
	2.24 ± 0.25	6.60 ± 0.38	4.37 ± 0.25	3.18 ± 0.13	2.92 ± 0.38	2.18 ± 0.13	11.13 ± 1.57	mm
KAL/NKAL50	0.088 ± 0.010	0.300 ± 0.015	0.196 ± 0.010	0.125 ± 0.005	0.107 ± 0.015	0.086 ± 0.005	0.410 ± 0.062	inches
	2.24 ± 0.25	7.62 ± 0.38	4.98 ± 0.25	3.18 ± 0.13	2.72 ± 0.38	2.18 ± 0.13	10.41 ± 1.57	mm



Aluminum Housed Chassis Mount Resistor

Resistive Product Solutions



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status									
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)			
KAL	Aluminum Housed Surface Mount Resistor General Purpose/Precision High Power Resistor	Special	YES	100% Matte Sn	Jan-06	06/01			

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

