7.62 ± 0.38

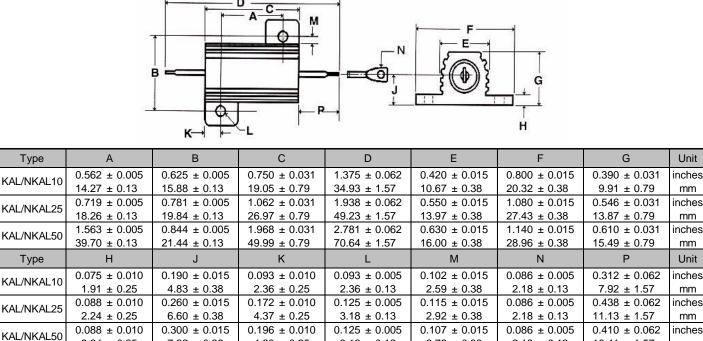
 2.24 ± 0.25

Features:

- 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
- 100% RoHS compliant and lead free without exemption
- Halogen free
- **REACH** compliant

Electrical Specifications									
Type / Code	MIL-R-26 Ref.	Power Ra @ 2	0 ()	Dielectric Withstanding	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance			
		Commercial	MIL	Voltage (VAC)		0.1%	0.5%	1%, 3%, 5%	
KAL10	RE-65	12.5	10	1000				0.05 - 30K	
KAL25	RE-70	25	20	- 3000 - 2500 - 1000 - 3000	< 0.1 Ω = ±100 ppm		1 - 1 K	1 - 1 K	0.05 - 51.1K
KAL50	RE-75	50	30					0.05 - 150K	
KAL100	RE-77	100	75			0500			1 - 500
KAL250	RE-80	250	120		$0.1 \Omega - 9.9 \Omega = \pm 50 \text{ ppm}$ $10 \Omega - 49 \Omega = \pm 30 \text{ ppm}$	-	-	0.1 - 3K	
NKAL10		12.5			$\sim 50 \Omega = \pm 20 \text{ ppm}$	1 - 499	1 - 499	0.05 - 15K	
NKAL25		25						0.05 - 24.9K	
NKAL50	-	50	-					0.05 - 75K	
NKAL100		100		2500	2500	-	1 - 249	0.1 - 1.5K	
NKAL250		250		2500			-	0.1 - 1.5K	

Mechanical Specifications - KAL/NKAL10, 25, 50





Stackpole Electronics, Inc.

Resistive Product Solutions

mm

1

 3.18 ± 0.13

 2.72 ± 0.38

 2.18 ± 0.13

 4.98 ± 0.25

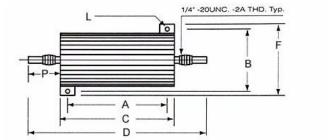
www.seielect.com marketing@seielect.com

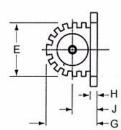
10.41 ± 1.57

Aluminum Housed Chassis Mount Resistor

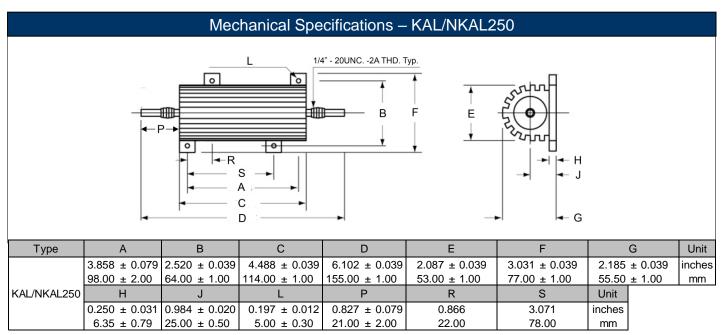
Resistive Product Solutions

Mechanical Specifications – KAL/NKAL100





Туре	А	В	С	D	E	F	Unit
	2.717 ± 0.079	2.362 ± 0.039	3.504 ± 0.039	5.315 ± 0.039	1.811 ± 0.039	2.756 ± 0.039	inches
	69.00 ± 2.00	60.00 ± 1.00	89.00 ± 1.00	135.00 ± 1.00	46.00 ± 1.00	70.00 ± 1.00	mm
KAL/NKAL100	G	н	J	L	Р	Unit	
	1.752 ± 0.039	0.187 ± 0.031	0.748 ± 0.020	0.197 ± 0.012	0.906 ± 0.079	inches	
	44.50 ± 1.00	4.75 ± 0.79	19.00 ± 0.50	5.00 ± 0.30	23.00 ± 2.00	mm	



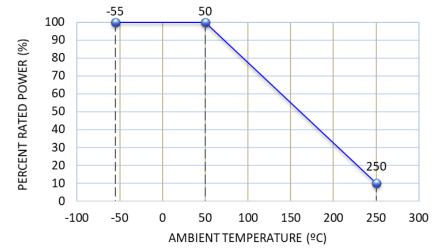
Performance Characteristics					
Test Test Condition Result					
Short Time Overload	5 X wattage rating - 5 seconds	ΔR ± (0.5% + 0.05 Ω) MAX			
Moisture Resistance	Temp 40°C moisture 95% CDC 100V for 500 hours	ΔR ± (0.5% + 0.05 Ω) MAX			
Load Life	Load rating (chasis is mounted) 1.5 hours ON, 0.5 hours OFF. Repeated for 1000 hours	$\Delta R \pm (1.5\% \pm 0.05 \Omega) MAX$			

Operating temperature range is -55°C to +275°C

Aluminum Housed Chassis Mount Resistor

Resistive Product Solutions

Power Derating Curve:



Note: This curve assumes the part is mounted on a properly sized heat sink.

Туре	Recommended Heat Sink Parameters
KAL10	130 sq inch surface area, 0.040" thick
KAL25	166 sq inch surface area, 0.040" thick
KAL50	286 sq inch surface area, 0.060" thick
KAL100	205 og ingh gurfagg grag 0 125" thigk
KAL250	295 sq inch surface area, 0.125" thick

Recommended Solder Profile

This information is intended as a reference for solder profiles for Stackpole resistive components. These profiles should be compatible with most soldering processes. These are only recommendations. Actual numbers will depend on board density, geometry, packages used, etc., especially those cells labeled with "*".

100% Matte Tin / RoHS Compliant Terminations

Soldering iron recommended temperatures: 330°C to 350°C with minimum duration. Maximum number of reflow cycles: 3.

Wave Soldering							
Description	Maximum	Recommended	Minimum				
Preheat Time	80 seconds	70 seconds	60 seconds				
Temperature Diff.	140°C	120°C	100°C				
Solder Temp.	260°C	250°C	240°C				
Dwell Time at Max.	10 seconds	5 seconds	*				
Ramp DN (°C/sec)	N/A	N/A	N/A				

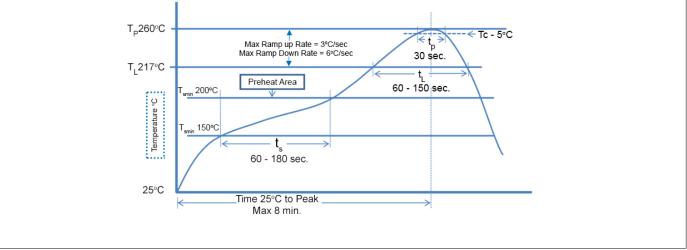
Temperature Diff. = Defference between final preheat stage and soldering stage.

KAL Series

Aluminum Housed Chassis Mount Resistor

Resistive Product Solutions

Description	Maximum	Recommended	Minimum			
Ramp Up (°C/sec)	3°C/sec	2°C/sec	*			
Dwell Time > 217°C	150 seconds	90 seconds	60 seconds			
Solder Temp.	260°C	245°C	*			
Dwell Time at Max.	30 seconds	15 seconds	10 seconds			
Ramp DN (°C/sec)	6°C/sec	3°C/sec	*			
Recommended Lead Free Resistor Reflow Profile						



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/NKAL	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.

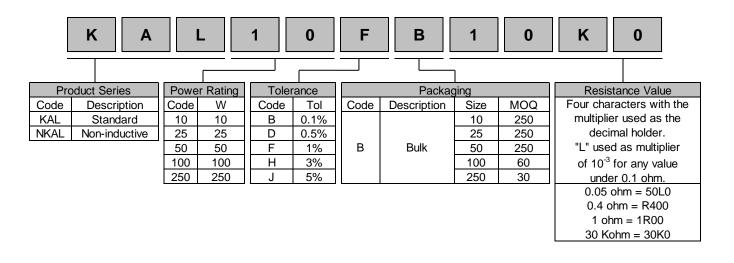
Compliance to "REACH"

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.

How to Order



Rev Date: 2/26/2021