

SEN

- Aluminum housing for maximum heat dissipation
- Complete welded construction
- 10 - 50W tinned copper terminals
- Centerless ground steatite or alumina cores
- Molded epoxy body for heat transfer
- Non-inductive winding available
- 100 - 250W threaded terminals
- RoHS compliant / lead-free



Type / Code	MIL-R-26 Ref.	Power Rating (Watts) @ 70°C		Dielectric Withstanding Voltage	Ohmic Range and Tolerance		
		Commercial	MIL		0.1%	0.5%	1% & 5%
KAL 10	RE-65	12.5W	10W	1,000 VAC	1Ω – 1KΩ	1Ω – 1KΩ	0.05Ω – 30KΩ
KAL 25	RE-70	25W	20W	2,500 VAC			0.05Ω – 50KΩ
KAL 50	RE-75	50W	30W				0.05Ω – 150KΩ
KAL 100	RE-77	100W	75W		–	0.4Ω – 50KΩ	0.4Ω – 50KΩ
KAL 250	RE-80	250W	120W			0.6Ω – 80KΩ	0.6Ω – 80KΩ

Power Derating Curve

The graph shows the relationship between ambient temperature and the percentage of rated power that can be safely dissipated. The power is constant at 100% for temperatures up to 25°C. Beyond 25°C, the power must be derated linearly, reaching 0% at 275°C.

Ambient Temperature (°C)	Percent Rated Power (P_n)
0	100
25	100
275	0

Test	Test Conditions	Results
Short Time Overload	5x wattage rating - 5 seconds	$\Delta R \pm (0.5\% + 0.05\Omega)$ MAX
Moisture Resistance	Temp 40°C moisture 95% CDC 100V for 500 hours	$\Delta R \pm (0.5\% + 0.05\Omega)$ MAX
Load Life	Load rating (chasis is mounted) 1.5 hours on - 0.5 hours off. Repeated for 1000 hours	$\Delta R \pm (1.5\% + 0.05\Omega)$ MAX

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graph TD
    KAL --- SEI_Type[SEI Type]
    KAL --- Code_KAL[Code]
    10 --- Code_10[Code]
    10 --- Wattage[Wattage]
    10K --- Nominal_Resistance[Nominal Resistance]
    10K --- Tolerance[Tolerance]
    1% --- SEI_Types[SEI Types]
    1% --- Pkg_Qty[Pkg Qty]
    B --- Description[Description]
    B --- Code_B[Code]
  
```

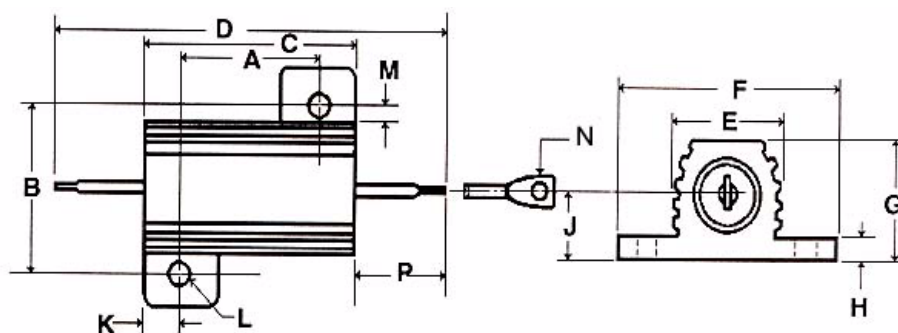
The diagram illustrates the classification of components into three main categories: KAL, 10, and 10K. Each category is further divided into sub-categories, which are then further divided into specific types or values. The diagram uses boxes and lines to show the relationships between these categories and their sub-categories.

- KAL**
 - SEI Type
 - Type
 - KAL: Standard
 - NKAL: Non-Inductive
 - Code
 - Code
 - 10: 10W
 - 25: 25W
 - 50: 50W
 - 100: 100W
 - 250: 250W
- 10**
 - Code
 - Code
 - 10: 10W
 - 25: 25W
 - 50: 50W
 - 100: 100W
 - 250: 250W
 - Wattage
 - Wattage
 - 10: 10W
 - 25: 25W
 - 50: 50W
 - 100: 100W
 - 250: 250W
- 10K**
 - Nominal Resistance
 - Nominal Resistance
 - 0.1%
 - 0.5%
 - 1%
 - 5%
 - Tolerance
 - Tolerance
 - 0.1%
 - 0.5%
 - 1%
 - 5%
- 1%**
 - SEI Types
 - SEI Types
 - KAL 10: 20
 - KAL 25: 10
 - KAL 50: 5
 - KAL 100: 10
 - KAL 250: 5
 - Pkg Qty
 - Pkg Qty
 - KAL 10: 20
 - KAL 25: 10
 - KAL 50: 5
 - KAL 100: 10
 - KAL 250: 5
- B**
 - Description
 - Description
 - Bulk
 - Code
 - Code
 - B

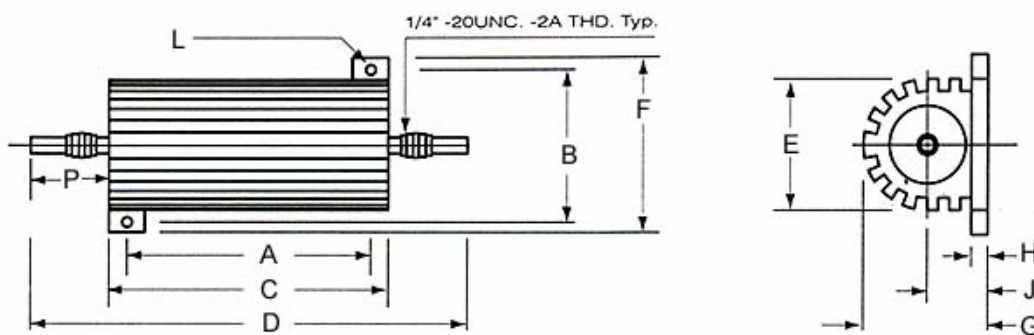
Mechanical Specifications

Type	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	Units
Tolerance	± 0.005	± 0.005	± 0.031	± 0.062	± 0.015	± 0.015	± 0.031	± 0.010	± 0.015	± 0.010	± 0.005	± 0.015	± 0.005	± 0.062	± 0.010	± 0.010	inches
	± 0.1	± 0.1	± 0.8	± 1.6	± 0.4	± 0.4	± 0.8	± 0.3	± 0.4	± 0.3	± 0.1	± 0.4	± 0.1	± 1.6	± 0.25	± 0.25	mm
KAL 10	0.562 14.3	0.625 15.9	0.750 19.0	1.375 34.9	0.420 10.7	0.800 20.3	0.390 9.9	0.075 1.9	0.190 4.8	0.093 2.4	0.093 2.4	0.102 2.6	0.086 2.2	0.312 7.9	-	-	inches mm
KAL 25	0.719 18.3	0.781 19.8	1.062 27.0	1.938 49.2	0.550 14.0	1.080 27.4	0.546 13.9	0.088 2.2	0.260 6.6	0.172 4.4	0.125 3.2	0.115 2.9	0.086 2.2	0.438 11.1	-	-	inches mm
KAL 50	1.563 39.7	0.844 21.4	1.968 50.0	2.781 70.6	0.630 16.0	1.140 29.0	0.610 15.5	0.088 2.2	0.300 7.6	0.196 5.0	0.125 3.2	0.107 2.7	0.086 2.2	0.410 10.4	-	-	inches mm
KAL 100	2.75 69.90	2.25 57.20	3.50 88.90	5.48 139.20	1.89 48.00	2.81 71.40	2.18 55.60	0.19 4.80	0.96 24.30	0.37 9.50	0.19 4.80	0.29 7.10	-	0.99 25.12	-	-	inches mm
KAL 250	3.87 98.4	2.50 63.5	4.50 114.3	7.00 177.8	2.13 54.0	3.00 76.2	2.19 55.6	0.25 6.4	0.96 24.3	0.31 7.9	0.19 4.8	0.25 6.4	-	1.25 31.8	0.87 22.2	3.00 76.20	inches mm

KAL 10 - 50



KAL 100



KAL 250

