

## Aluminum Housed Resistors

### L-KLS6-ACR Aluminum Housed Resistors

Feature:

High power, small size, high precision,  
high stable, operation with good reliability.

General specifications:

Power Range: 5-250W 6 choices.

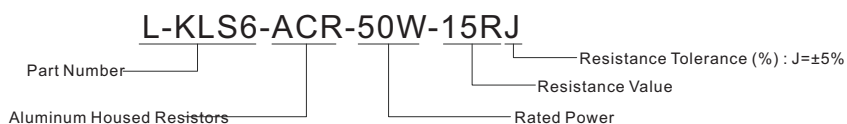
Resistance Tolerance: 10%, 5%, 2%, 1%, 0.5%



VI

Model	Military	25 ° C Rated Power (W)		Resistance Value ( Ω )			
	Species	Civil	Military	±0.1%	±0.25%	±0.5%	±1%, ± 5%, ± 10%
KLS6-ACR-5	RE60G	5	5	1R0-510R	R50-1K2	R10-1K2	R10-3K32
KLS6-ACR-5N	RE60N	5	5	1R0-100R	1R-200R	1R0-860R	1R0-1K65
KLS6-ACR-10	RE65G	10	10	1R0-1K2	R50-2K7	R01-2K7	R10-5K62
KLS6-ACR-10N	RE65N	10	10	1R0-860R	1R0-1K2	1R0-1K2	1R0-2K8
KLS6-ACR-25	RE70G	25	20	R5-2K7	R10-3K9	R01-3K9	10R-12K1
KLS6-ACR-25N	RE70N	25	20	1R0-1K2	1R0-2K7	1R0-2K7	1R-6K04
KLS6-ACR-50	RE75G	50	30	R5-3K9	R10-5K6	R01-5K6	R01-39k2
KLS6-ACR-50N	RE75N	50	30	1R0-2K7	1R0-3K9	1R0-3K9	10R-19K6
KLS6-ACR-100	RE77G	100	75	1R0-5K6	R10-8K2	R05-12K	R05-29K4
KLS6-ACR-100N	RE77N	100	75	1R0-3K9	1R0-5K6	1R0-5K6	1R0-14K7
KLS6-ACR-250	RE80G	250	120	R1-12K	R10-27K	R01-27K	R10-35K7
KLS6-ACR-250N	RE80N	250	120	1R0-5K6	1R0-8K2	1R0-8K2	1R0-17K4

## ORDER INFORMATION



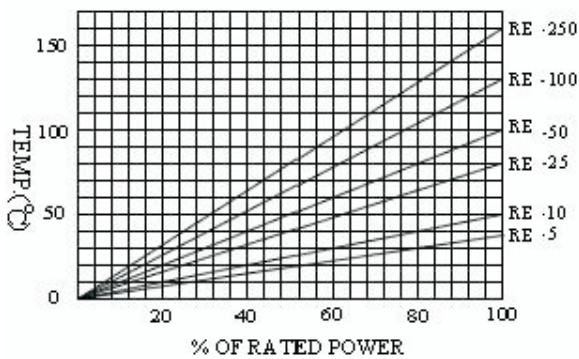
## Aluminum Housed Resistors

### Performance

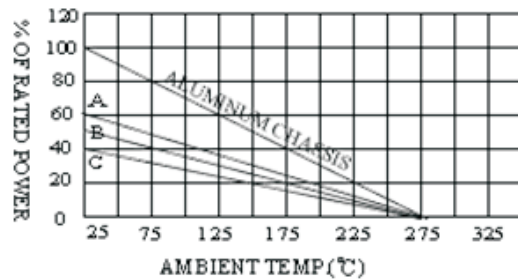


Item	Test Condition	Test Requirement
Short-term overload	5 times of rated power for 5 seconds	$\Delta R \leq \pm(0.5\%R+0.05\Omega)$
Temperature coefficient of resistance	40 ° C Humidity 95% DC 100V 500Hr	$\Delta R \leq \pm(0.5\%R+0.05\Omega)$
Durability of the humidity	40 ° C Humidity 95% 1/10 X Rated Power (1.5Hr on-0.5Hr OFF)- Repeat 1000Hr	$\Delta R \leq \pm(0.5\%R+0.05\Omega)$
Durability	Load power (Aluminum Housing) (1.5Hr, then close 0.5Hr) repeat 1000 Hr	$\Delta R \leq \pm(1.5\%R+0.05\Omega)$
Vibration	10c/s-50c/s-10c/s(1Min)-2Hr Parallel with the correct Angle	$\Delta R \leq \pm(0.2\%R+0.05\Omega)$
Thermal Shock	Work under the rated voltage until the thermal stability, then place again -55°C, keep 1 min	$\Delta R \leq \pm(0.5\%R+0.05\Omega)$
Withstand voltage	RE-5 RE-10 RE-25 1000V RE-50 1500V RE-100 RE-250 2500V	$\Delta R \leq \pm(0.5\%R+0.05\Omega)$
insulation resistance	In the same Dielectric Strength test condition, load 500V and Insulation resistance testing	1000MΩMin.
Terminals Strength	Tension: RE605-RE610 is 22.2N, RE615 is 44.4N Time: 30S Torque: RE604 is 2.7N.m RE650O is 3.6N.m	$\Delta R \leq \pm(0.2\%+0.05\Omega)$

Surface temperature of power load curve



Power decline curve



To decompose the case area to adapt to the environment of high temperature power attenuation curve .

Curvature : A=5 & 10W, Unused .B=25W, Unused .C=50,100 & 250W, Unused

## Aluminum Housed Resistors

### Material

Sealing material: Silicone

Housing: Anodic aluminum oxide shell

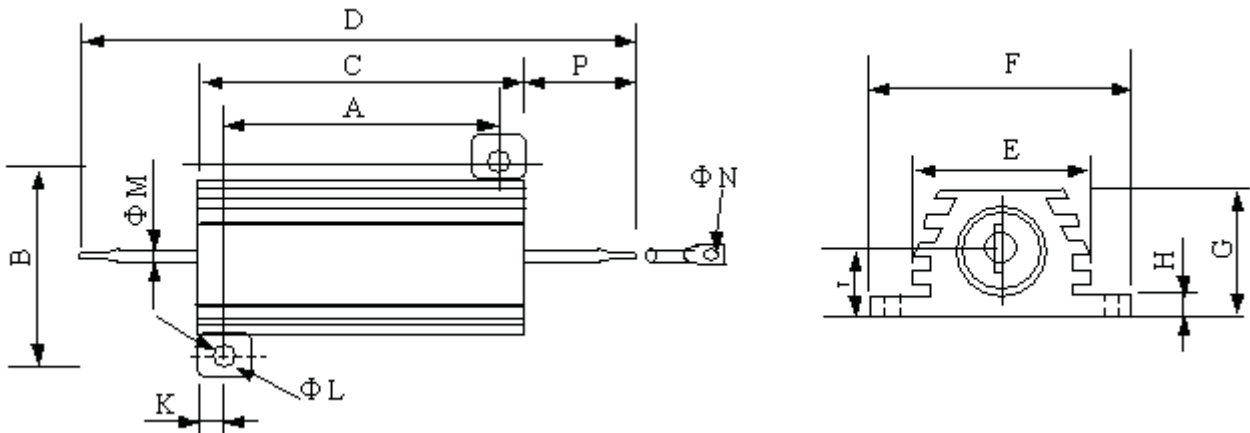
End cap: Stainless Steel

Resistance wire: Synthesis of copper and nickel, nickel chromium synthesis or copper according to resistance value

Core: Alumina or ceramic

Standard terminal: 5~50W Tinned Copper, 100~250W Stainless steel bar

**Size: 5, 10, 15, 50, 5N, 10N, 15N, 50N**

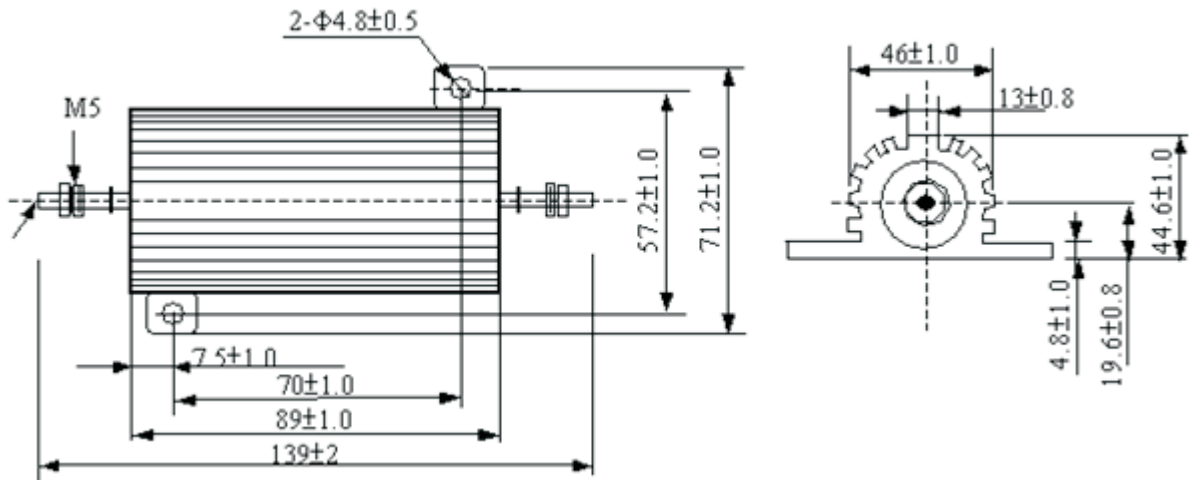


Model	Size (mm)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
	±1.0	±1.0	±1.0	±2.0	±1.0	±1.0	±1.0	±0.8	±1.0	±0.8	±0.5	±0.5	±0.2	±0.8
ACR-5	11.2	12.5	15.2	28.6	8.5	16.4	8.1	1.7	3.8	2	2.4	1.5	1.3	6.7
ACR-10	14.2	15.9	19	34.9	10.7	20.3	9.9	1.9	4.2	2.4	2.4	2	2.2	7.95
ACR-25	18.2	19.8	27	49.2	14	27.4	13.9	1.9	5.9	4.4	3.2	1	2.2	11.1
ACR-50	40	21.4	50	70.6	16	29	15.5	2.2	6.6	5	3.2	2	2.2	10.3

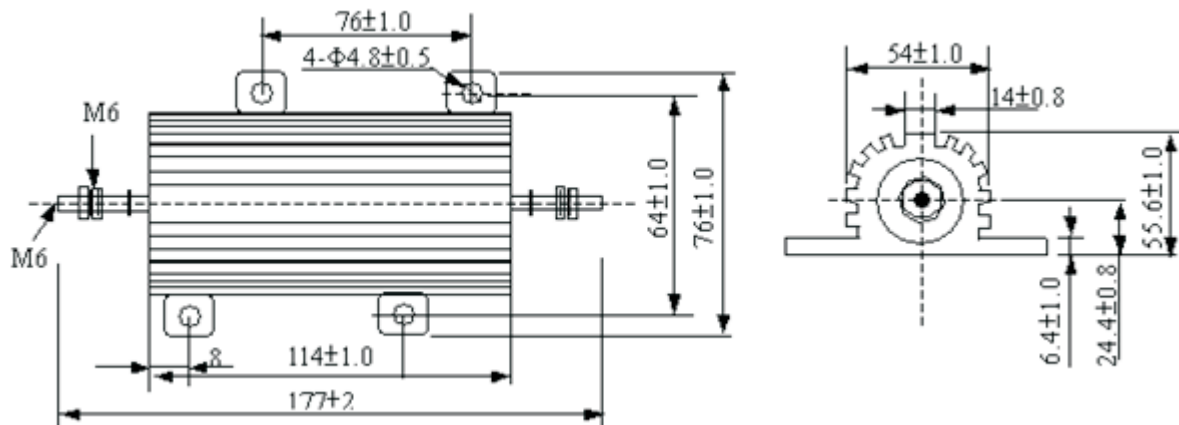
Note: product size may change, with the actual product size or this latest specification shall prevail.

## Aluminum Housed Resistors

Size: 100, 100N



Size: 250, 250N



(Special power, resistance, size can be negotiation)

\*Note: the voltage reference electronics ohm's law formula calculation  $V=I \cdot R$