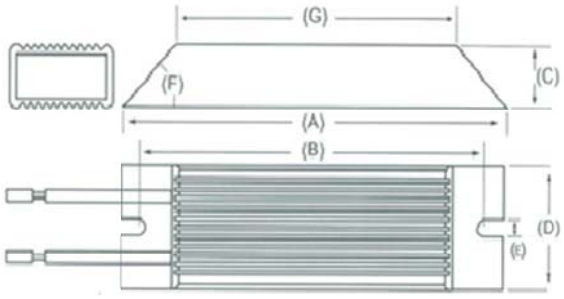
Trapezoidal Aluminum Housed Wirewound Resistor

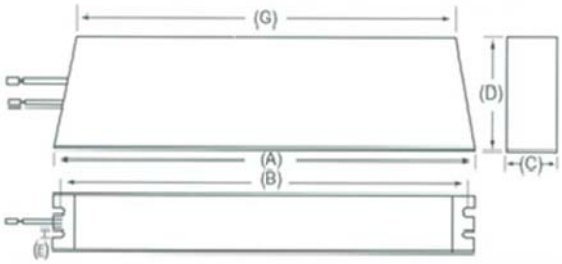
Construction :

- Insulation is applied through a high-temperature process.
- An aluminum encased consists of an alloy metal coil-type Resistance element assembled into an aluminum enclosure.
- After high-temperature anodization, the enclosure is filled with a special non-flammable cement paste and hardening.
- Since this component is embedded in the heat-proof cement, it is not affected by external mechanical force, and dusty environments.

Trapezoidal Aluminum Housed Wirewound Resistor Dimension:



Horizontal type



Vertical type

Power(W)	A±1.5	B±1.5	C±1	D±1	E±1.5	F±1.5	Type
60W	100	72	20	40	5	85	Horizontal
100W	115	87	20	40	5	100	Horizontal
120W	165	135	20	40	5	150	Horizontal
150W	125	90	30	60	5	110	Horizontal
200W	165	125	30	60	5	150	Horizontal
300W	215	175	30	60	5	200	Horizontal
400W	265	225	30	60	5	250	Horizontal
500W	285	245	30	60	5	270	Horizontal
600W	300	260	30	60	5	285	Horizontal

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800W	330	290	30	60	5	315	Horizontal
1000W	300	260	50	107	6	285	Vertical
1200W	350	310	50	107	6	335	Vertical
1500W	400	360	50	107	6	385	Vertical
2000W	450	410	50	107	6	435	Vertical
3000W	550	510	50	107	6	535	Vertical
4000W	650	610	50	107	6	635	Vertical
5000W	750	710	50	107	6	735	Vertical

Electrical and mechanical properties:

TEST ITEMS	SPECIFCATIONS	TEST METHODS
Resistance tolerance	R≥1Ω ±5% R<1Ω ±10%	JIS-C-5202-5.1
Resistance Temp. Coeff.	R>20Ω,±260 ppm/℃ R≤20Ω,±400 ppm/℃	JIS-C-5202-5.2 -25℃~200℃
Rating load	Superficial temperature≤375℃	JIS-C-5202 5.4 300×300× 3mm plate aluminium
Short Time Over load	No abnormality ΔR≤±（2%R+0.05Ω）	JIS-C-5202-5.5 10 x Rated power 5 seconds
Insulation Resistance	No abnormality R≥100MΩ	JIS-C-5202-5.6 500VDC
Dielectric withstanding voltage	No abnormality no destroying ΔR≤±（ 0.1%R+0.05Ω）	JIS-C-5202-5.7 2500VDC 1 minute

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Terminal Strength	No abnormal or Loosing	A static load of 100N in the direction of terminal for 30 seconds. JIS-C-5202 6.1.2(1)
Vibration Proof	No abnormal ΔR≤± (0.1%R+0.05Ω)	JIS-C-5202-6.3 1.5m/m 10~50~10Hz/min X-Y-Z 2 hours each.
Heat tolerance	No colour changed and abnormality except terminal, sign clear	Where the device is heated to 350±5℃ with no load for 120±5 minutes , accordance with JIS-C-5202 7.2
Thermal shock	No abnormality ΔR≤± (2%R+0.05Ω)	Rating power for 30 minutes,8-12 s expose to -40±2℃ for 15+5 minutes, constant temperature 2 hours. JIS-C-5202 7.3
Moisture resistance life	No damage Sign clear ΔR≤± (3%R+0.05Ω) Insulation resistance R≥25MΩ	100V at 40±2℃ at relative humidity 90-95% for 1 hour, then cycled off for less than 0.5 hours , for 500+24 hours. JIS-C-5202 7.5
Load life	No damage Sign clear ΔR≤± (5%R+0.05Ω)	300×300× 3mm plate aluminium, rating DC voltage at 20±7℃, 90 minutes on 30 minutes off, 500 +24 hours, JIS-C-5202 7.10

Order Information:

L	-	KLS6	-	ASZ	-	60W	-	120R		J

RoHS

Trapezoidal
Aluminum
Housed
Wire
wound
Resistors

Power (W)
60W
100W
120W
150W
~

Resistance (Ω)	
1R0	1Ω
10R	10Ω
100R	100Ω
1K	1000Ω

Tolerance (%)	
J	±5%
K	±10%