



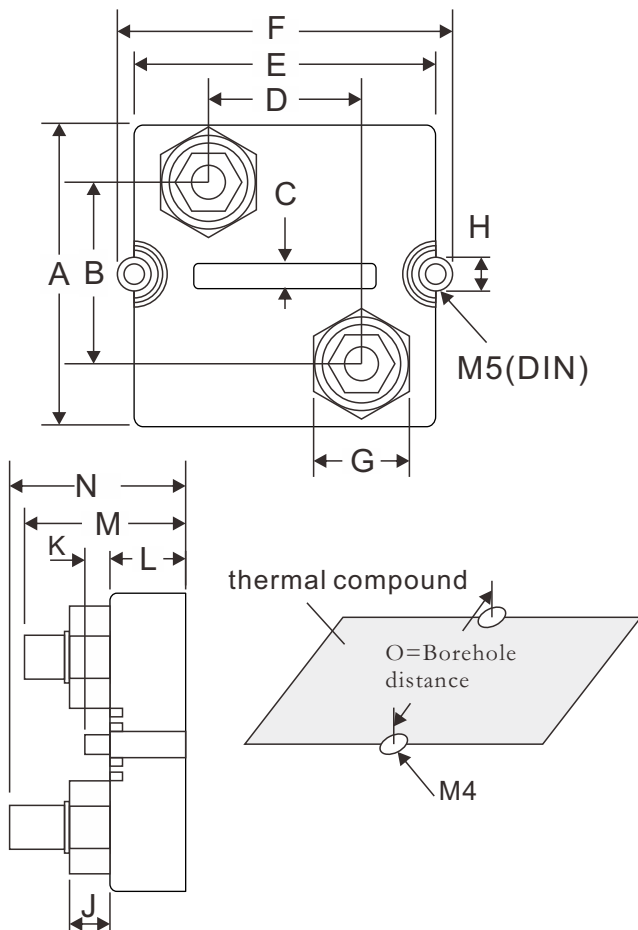
Features

- I Non-inductive, wide resistance range
- II High power(the temp of floor center less than 85°C, the power is 600W)
- III Resistance range: from 0.5Ω to 1MΩ
- IV Small volume, easy mounting
- V High voltage withstanding 6KV
- VI Insulated case to U194 -V0
- VII The thermal resistance 0.115°C/W

Application

Wind power generation, power transmission, robot, frequency converter, switching power supply and so on.

Dimensions



尺寸	Min(mm)	Max(mm)
A	59.20	60.80
B	35.80	36.20
C	4.50	5.50
D	33.80	34.20
E	56.80	57.40
F	64.20	65.80
G	17.50	18.50
H	4.05	4.30
J	6.50	7.50
K	4.50	5.50
L	14.50	15.50
M	29.50	30.50
N	31.50	32.50
O	56.80	57.20

Applications And Ratings

Type	Rating Power (85°C)	Resistance Range (Ω)	TCR	Precision	Max working Voltage	Working temperature
HVL	600W	0.5Ω—100Ω	± 150PPM/°C	J ± 5% K ± 10%	5KV	-55°C ~ +155°C

Ordering Information

Example:

HVL	600	J	R100	C
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance Tolerance	Resistance	T.C.R

(1)Type: HVL SERIES

(2)Power Rating: 600=600W

(3)Tolerance: J= ± 5%,K= ± 10%

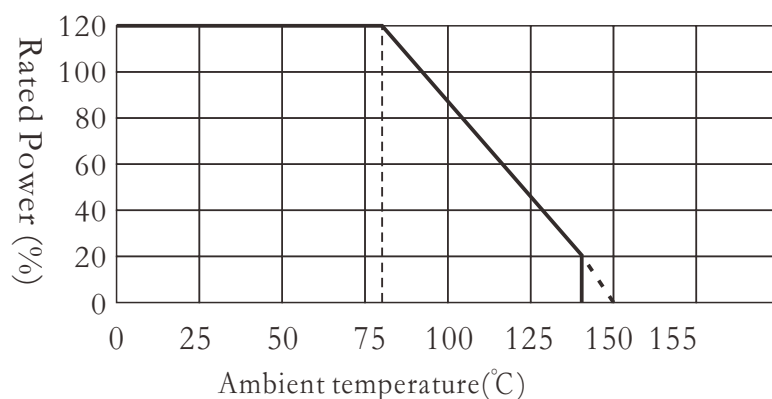
(4)Resistance Value:R100=0.1Ω

(5)T.C.R:C=150PPM/°C

Reference Standards

JIS C 5201-1

Derating Curve



Performance

Test Items	Specifications	Test Methods(JIS C 5201-1)
Moisture resistance	$\Delta R \leq \pm (0.25\%R + 0.001\Omega)$.	56 days/40°C ,RH≥95%
Thermal cycling	$\Delta R \leq \pm (0.2\%R + 0.001\Omega)$.	-55° C/+125° C(0.5h each), 5 cycles
Vibration, high frequency	$\Delta R \leq \pm (0.2\%R + 0.001\Omega)$.	MIL - Std - 202, method 204, Cond.D
Load life	$\Delta R \leq \pm (0.4\%R + 0.001\Omega)$.	1,000 hours at rated power, BCT=85°C
Short time overload	$\Delta R \leq \pm (0.4\%R + 0.001\Omega)$.	1000W,70° C,10 S
Peak current	up to 1500Amp. Depending on pulse length and frequency.	
Dielectric strength	6KVrms,50Hz,1min,12KVrms on request.	
Partial discharge	4KVrms,<10pC;7KVrms on request.	
Insulation resistance	10GΩ, Min at 500V.	
Creeping distance:	42mm, Min.	
Air distance	14mm, Min.	
Inductance	≤80nH	
Capacitance /Mass	≤110pF	
Capacitance /Parallel	≤40pF	
Contact terminal	M5 screw, Max torque 2Nm	
Resistor installation	M4 screw, Max torque 1.8Nm	