

【HIGH POWER RESISTOR- FCHD400 Series】



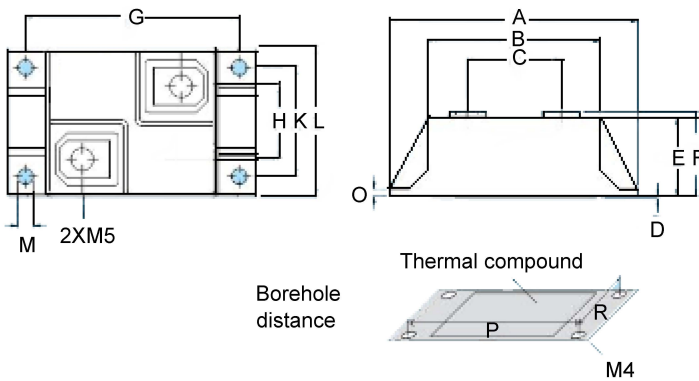
■ Features

- Thick film & Non-inductive design, ROHS compliant
- High voltage and pulse loading, easy load connecting with M4 or M5 screws
- Extremely low TCR down to 150PPM with high power
- High power rating up to 400 Watts at 85 degree.

■ Applications

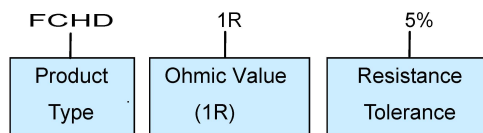
- Evariable speed drives
- Power supplies
- Control devices, robotics, motor control and other power designs

■ Construction

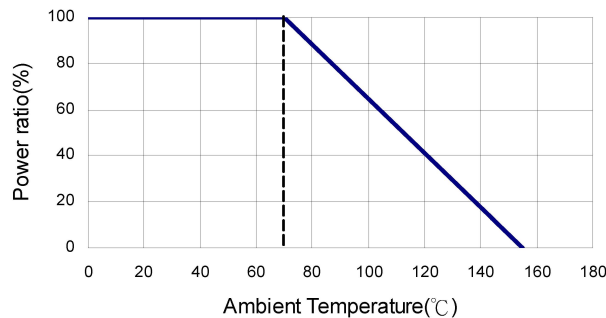


Size	Min(mm)	Max(mm)
A	65.2	66.8
B	45.2	46.8
C	24.5	25.5
D	0.1	0.2
E	20.5	21.5
F	22.0	23.0
G	56.2	57.8
H	19.5	20.5
K	28.5	29.5
L	39.2	40.8
M	4.1	4.3
O	1.85	2.15
P	56.8	57.2
R	28.8	29.2

■ Part Numbering



■ Derating Curve



■ Technical and standard electrical specifications

Resistance ranges: $0.5 \Omega \sim 1M \Omega$

Resistance Tolerance: $\pm 5\% \sim \pm 10\%$

Temperature Coefficient: $\pm 150PPM/^{\circ}C$ ($25^{\circ}C \sim 105^{\circ}C$) On special request

Power Rating: 400W at $85^{\circ}C$ Bottom case temperature

Maximum Working Voltage: 5000VDC, higher voltage in request, not exceeding max. power

Peak Current: up to 1500 Amp. depending on pulse length and frequency please ask for details

Electric Strength Voltage: 6kVrms, 50Hz, up to 12kVrms On special request

Single Shot Voltage: up to 12kV Normwave (1.5/50usec)

Parital Discharge: 5kVrms, <10pC, up to 7kV On special request

Insulation Resistance: $10G \Omega$ Min at 500V, Creeping Distance: 42 mm Min.

Air Distance: 14 mm Min. ; Inductance: ≤ 80 nH; Capacity/Mass: ≤ 110 pF; Capacity/Parallel: ≤ 40 pF;

Moisture Resistance: 56day/ $40^{\circ}C$, $RH \geq 95\%$, $\Delta R \leq \pm (0.25\% + 0.001 \Omega)$,

Vibration, High Frequency: MIL-Std-202, Method 204, cond. D, $\Delta R \leq \pm (0.2\% + 0.001 \Omega)$ Max.

Short Time Overload: 700W at $70^{\circ}C$ for 10sec. , $\Delta R = 0.4\%$ max.

Working Temperature Range: $-55^{\circ}C \sim 150^{\circ}C$

Max. Torque for Contacts: 2Nm; Max. Torque for Mounting: 1.8Nm M4 screws;

■ Reference Standards: IEC60115-1:2001(GB/T5729-2003)

MIL-STD-202/MIL-R-39009D

■ Storage Temperature: $25 \pm 3^{\circ}C$; Humidity < 80%RH