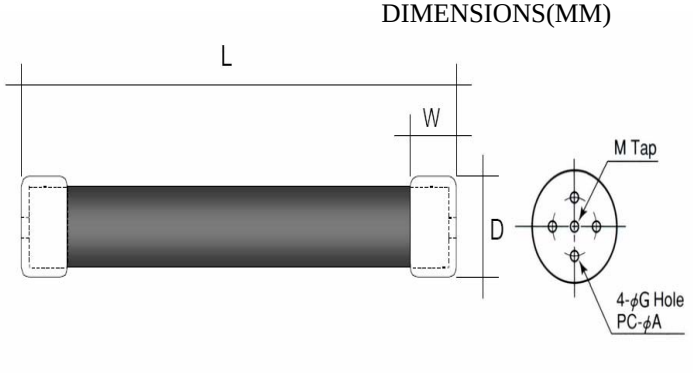
# LMEM

## TYPE HPW&HCW 高電壓電阻器 HIGH VOLTAGE POWER RESISTORS

DIMENSIONS(MM)




■Features：

- Power ratings up to 500 Watts.
- Voltage ratings up to 200KV.
- Excellent resistance to voltage pulses.
- Excellent temperature stability.

■Applications：

- Surge absorbing resistors.
- Protective resistors at the time of a short-circuit.
- Resistors for charging and discharging high voltage.
- Dividers for D.C. voltage and for measuring lightning and switching impulses.

■HPW & HCW Resistors, which are non-inductive wire wound resistors for high voltage with resistance wires wound on insulation pipes.

■The designs meeting customers demanded specifications are available. Refer to us for your dimensions.

| TYPE | Resistance Range | | Max. Oper. Voltage | Dimensions(mm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inductive | Non-Inductive | | L | D±0.5 | W | M | G | A |
| HPW-25W | 8~75KΩ | 8~1000Ω | 120KV | 300±2 | 31.5 | 18 | 6 | 4 | 14 |
| HPW-50W | 10~150KΩ | 10~1800Ω | 160KV | 400±3 | 45 | 20 | 8 | 4 | 16 |
| HPW-100W | 15~200KΩ | 15~3000Ω | 200KV | 500±3 | 62 | 25 | 10 | 7 | 26 |
| HPW-200W | 20~300KΩ | 20~5000Ω | 200KV | 1000±4 | 62 | 25 | 10 | 7 | 26 |
| HPW-500W | 30~500KΩ | 30~8000Ω | 200KV | 1000±4 | 135 | 30 | 12 | 20 | 80 |

■HPW resistor with resistance wires wire wound on FRP pipe.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| HCW-10W | 10~5KΩ | 5~500Ω | 10KV | 60±2 | 17.5 | 10 | 3 | 2 | 7 |
| HCW-20W | 10~10KΩ | 5~800Ω | 24KV | 80±2 | 17.5 | 10 | 3 | 2 | 7 |
| HCW-35W | 10~20KΩ | 5~900Ω | 48KV | 156±2 | 17.5 | 10 | 3 | 2 | 7 |
| HCW-50W | 10~30KΩ | 5~1000Ω | 30KV | 105±2 | 31.5 | 18 | 6 | 4 | 14 |
| HCW-65W | 10~50KΩ | 10~1200Ω | 48KV | 160±2 | 31.5 | 18 | 6 | 4 | 14 |
| HCW-85W | 10~60KΩ | 10~1400Ω | 65KV | 210±2 | 31.5 | 18 | 6 | 4 | 14 |
| HCW-100W | 10~75KΩ | 10~1600Ω | 90KV | 250±3 | 31.5 | 18 | 6 | 4 | 14 |
| HCW-120W | 10~100KΩ | 10~1800Ω | 100KV | 308±3 | 31.5 | 18 | 6 | 4 | 14 |
| HCW-150W | 10~120KΩ | 10~2000Ω | 100KV | 308±3 | 45 | 20 | 8 | 4 | 16 |
| HCW-250W | 10~150KΩ | 10~3000Ω | 120KV | 450±4 | 45 | 20 | 8 | 4 | 16 |
| HCW-400W | 10~200KΩ | 10~3000Ω | 125KV | 500±4 | 62 | 25 | 10 | 7 | 26 |

■HCW resistors which are wound around ceramic core.

■Characteristics：

Operating temperature type: HPW -55℃ to +125℃
HCW -55℃ to +230.

Tolerance(Code): ±0.1%(B),±0.25%(C),±1%(F),±2%(G), ±5%(J),±10%(K).

Temperature coefficient: ±25ppm/℃,±50ppm/℃, ±100ppm/℃,±260ppm/℃.

Dielectric strength: ＞1000Volt 25℃,75% relative humidity.

Insulation resistance: ＞10000M ohm 500Volts@25℃,75% relative humidity.

Overload: △R/R 0.5%max 2.5× wattage rating -5sec.

Load Life: △R/R 0.5%max 1000 hours at rated load.

Thermal shock: △R/R 0.2%max

Moisture resistance: △R/R 0.25%max

WATTAGE VS. AMBIENT TEMP.DERATING