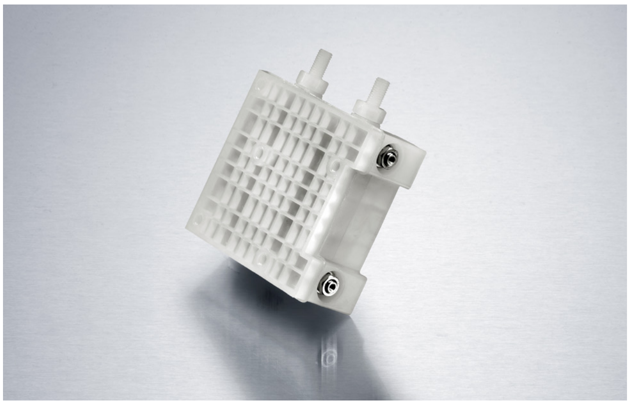
Series LCR6000

The resistor is made of metal alloy structure. Direct water cooling with high purity water (or 50% ethylene glycol) shows better results compared to traditional cooling method. Found applications in electricity generation, transmission or electrical drive system.

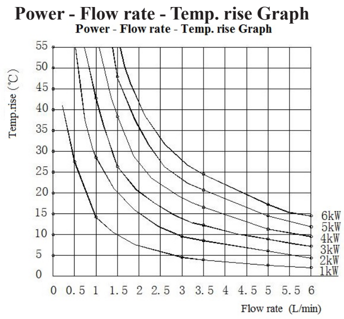


Features

- PVDF resistor case and water channel can withstand high pressure, temperature and acid environment to guarantee long-term reliability
- Spiral water channel can reduce water flow resistance. Symmetric metal alloy minimizes the parasitic reactance
- The resistive alloy plate is stamping processed
- The resistor is assembled with special technique to meet the vibration and shocking requirements

Technical Specifications

Resistance value	1 Ω ≤ 130 Ω (others on special request)
Resistance tolerance	±1 % to ±5 %
Temperature coefficient	±150 ppm/°C (referenced to +25°C, ΔR taken at ~+100°C)
Rated power	**Cooling water conductivity:** < 0.5 μS / cm **Cooling water temperature:** outlet temp. ≤ 65°C (avoid boiling) **Cooling water temperature rise:** ΔT = (P x 60) / (L x 4200) P = rated power (W) / L = flow rate (l/min.) With above conditions, when water inlet temperature ≤ 50°C, cooling water temp. rise ≤ 15°C, the flow rate and rated power are as following: 6 l/min: Pmax = 6 kW (inlet/outlet pressure difference ≤ 1.2 bar, ref.) 8 l/min: Pmax = 8 kW (inlet/outlet pressure difference ≤ 1.7 bar, ref.)
Short time overload	1.5 rated power, 5 s, ΔR ≤ ± (1%R + 0.05 Ω)
Dielectric strength voltage	11 kV rms, 50 Hz, 1 min.
Max. peak voltage	8.5 kV
Inductance	≤ 4 mH
Capacitance / mass	≤ 100 pF
Vibration test	amplitude 0.75, frequency 10 ~ 55 Hz, 2 h, ΔR ≤ ± (1%R + 0.05 Ω)
Air distance	> 17 mm
Case material	PVDF CTI ≥ 600, in compliance with UL 94 V-0



How to make a request

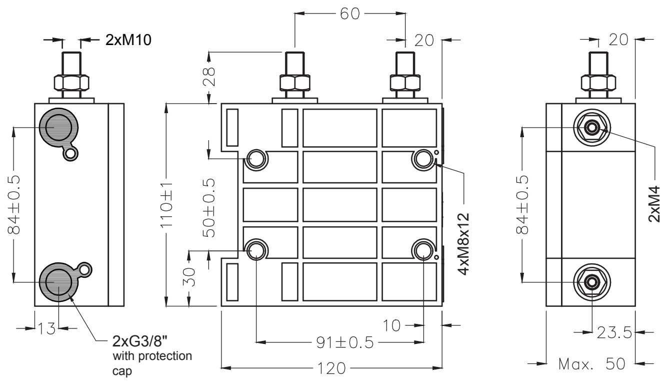
LCR6000_Ohmic Value_Tolerance

For example:
LCR6000 60R 5%

Applicable Standard

- IEC60115-1 : 2001 (GB/T5729-2003)
- MIL-STD-202
- MIL-R-39009D
- Q/EBG007-2012 company standard

Dimensions in mm



Further Option

without threaded bolt for mounting possible (ask for details)

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