

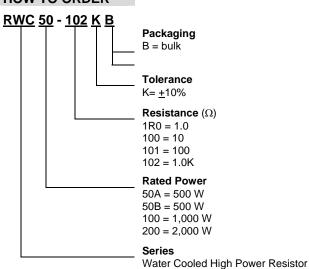
HIGH POWER RESISTOR – Water Cooling, Non-Inductive

The content of this specification may change without notification 12/14/07

Custom solutions are available.



HOW TO ORDER





FEATURES

- Small size 500W, 1Kw, and 2Kw water-cooled non-inductive resistor with very low resistor temperature while in operation
- Flat plate resistance and twisted pair leads and special terminal structure (patent) have shown excellent surge absorption performance
- Resistors are insulated from case by high purity alumina substrate, and are guaranteed voltage-proof to 5kV

APPLICATIONS

- Surge suppression resistors for power thyristors and IGBT,
- Power supply for electric power conversion system and industrial apparatus
- High output AC motor controls

SPECIFICATIONS

Model	RWC50A	RWC50B	RWC-100	RWC-200
Rated Power	500 W (250 W/resistor element)	500 W	1,000 W	2,000 W
Max. Applied Power	700 W (350 W/resistor element)			
Resistance Range Ω	0.10 ~ 1.0K	0.22 ~ 1.0K	0.22 ~ 1.0K	0.22 ~ 1.0K
EIA Values	All	All	All	All
TCR (ppm/°C)	±250	±250	±250	±250
Tolerance	±10%	±10%	±10%	±10%
Inductance (typical)	Series: 40nH/Dual resistor	0.1uF		
Capacitance (typical)	Parallel: 160pF/dual resistor	300pF	600pF	1200pF
Hose Mouth	Standard: nipple	-	-	-
Water Temperature	+41°C max at inlet, > dew point	41°C*	41°C*	41°C*
Volume of Water Flow	2 litters/minute minimum	6 litters/min	6 litters/min	6 litters/min
Minimum Water Temp.	-	Over due point	Over due point	Over due point
Water Pressure Loss	0.06Kg/cm ²	0.1kgf/cm ²	0.1kgf/cm ²	0.1kgf/cm ²
Max. Water Pressure	-	10Kg/cm ²	10Kg/cm ²	10Kg/cm ²
Water Temperature Rise	1.4°C	1.4°C**	3.0°C**	6.0°C**
Case Temperature Rise	14°C	14°C	14°C	14°C
Surface Temperature Rise	50°C	50°C	50°C	50°C
Max. Surface Temp. Rise	110°C	110°C	110°C	110°C
Continuous Impulse Load	Peak Power 37kW/10 microsec./10kHz (ref. only)	-	-	-
Damaged Impulse Load	100kW/70 microsec.	-	-	-
Terminal Codes	Teflon Insulated Wire (0.18/30, outer diameter 2mm, blue), 200mm length	-	-	-
Dielectric Strength	AC 2000V, 60 sec. (between terminal and case)	-	-	-
Max Operating Voltage	1000V AC	-	-	-
Withstanding Voltage	-	2000V AC	2000V AC	2000V AC
Insulation Resistance	1,000Meg ohm min. (between terminal and case)	-	-	-
Load Life	±2% (rating 500W, 1000 hours)	-	-	-
Humidity	±2% (rating x 0.1, 1000 hours continuous load)	-	-	-
Weight	350g	3kg	5kg	10kg

^{*}at inlet

^{**} at outlet at rated power



188 Technology Drive, Unit H, Irvine, CA 92618 TEL: 949-453-9888 • FAX: 949-453-8889



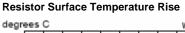
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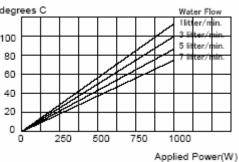
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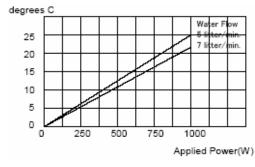


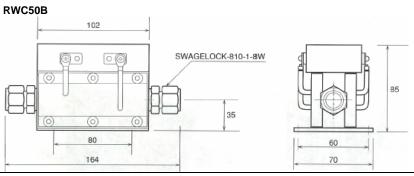
SCHEMATIC & DIMENSIONS (mm) 90.0 (40.0)100 80 30.0 30.0 (21.0) 60 40 32.5 20 ϕ 12.7 50.0 Hose mouth Nitta Moore Company DC10-PT3/8 ϕ 10.0 15.0 **Case Temperature Rise** degrees C 30.0 70.0 2-M5 depth 6 25 RWC50B

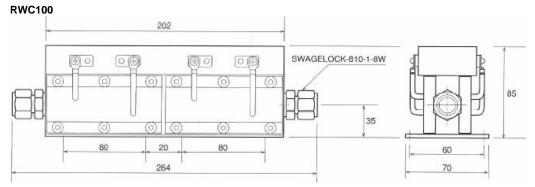


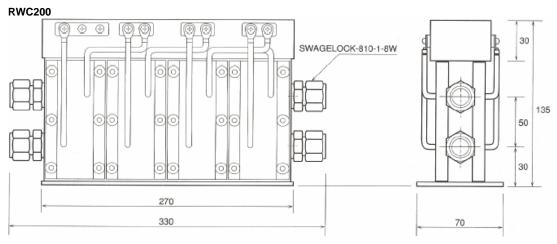














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