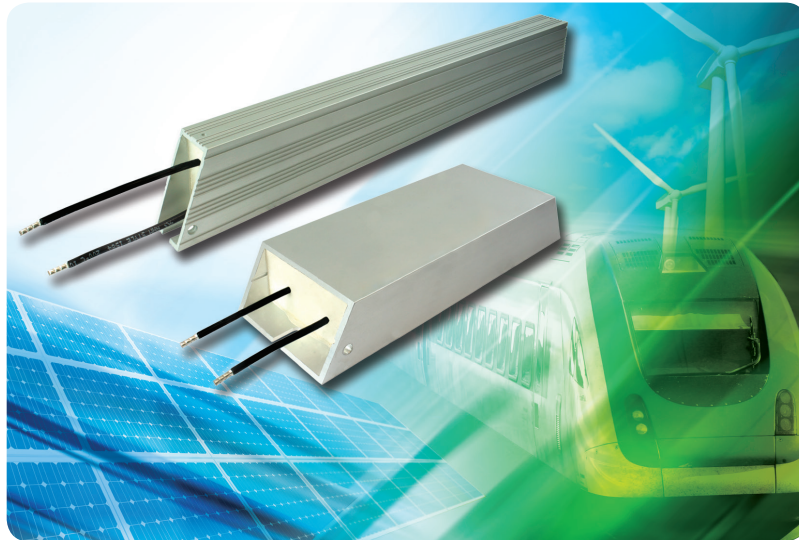




Aluminum Housed Compact Resistor



KEY BENEFITS

- Power rating up to 500 W
- High overload capability
- Protection IP20 or IP65
- Aluminum housed construction
- Multiple construction possible for higher power ratings
- Heatsink mounting
- UL 600 V/1000 V

APPLICATIONS

- Braking resistor
- Chopper resistor
- Load resistor
- Pre-discharging resistor
- Voltage limiting resistor

Used in industrial, motor drive, railway, renewable energy, and other high-power systems

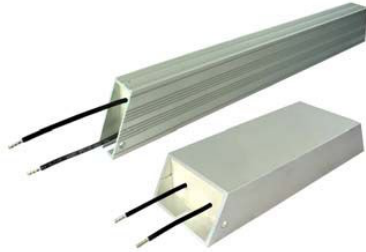
RESOURCES

- Datasheet: VACR - <http://www.vishay.com/doc?21035>
- For technical questions contact ww1resistors@vishay.com

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



Aluminum Housed Compact Resistor



FEATURES

- Power rating up to 500 W
- High overload capacity
- Protection IP20 or IP65
- Enhanced humidity protection
- Complete housed construction
- Multiple construction for higher power rating
- Heatsink mounting

APPLICATIONS

- Drive controllers
- Railway
- Frequency inverter
- Mechanical engineering
- Renewable energy

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	POWER RATING W $P_{40\text{ }^\circ\text{C}}$	RESISTANCE RANGE ⁽¹⁾ Ω	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE \pm %	PROTECTION	MAX. PERMISSIBLE OPERATING VOLTAGE
VACR050	50	3.0 to 560	50 to 150	10	IP65	UL 600 V/UL 1000 V
VACR100	100	6.2 to 1.2K	50 to 150	10	IP65	UL 600 V/UL 1000 V
		3.0 to 560	50 to 150	10	IP65	EN 1000 V DC
VACR120	120	2.7 to 910	50 to 150	10	IP65	UL 600 V/1000 V
VACR130	130	4.7 to 1.0K	50 to 150	10	IP65	UL 600 V/1000 V
VACR150	150	2.7 to 910	50 to 150	10	IP65	EN 1000 V DC
		9.1 to 1.5K	50 to 150	10	IP65	UL 600 V/UL 1000 V
		6.2 to 1.2K	50 to 150	10	IP65	EN 1000 V DC
		2.7 to 910	50 to 150	10	IP20	UL 600 V/1000 V
VACR180	180	4.7 to 1.0K	50 to 150	10	IP65	EN 1000 V DC
		6.2 to 1.2K	50 to 150	10	IP65	UL 600 V/1000 V
VACR200	200	8.2 to 1.8K	50 to 150	10	IP65	EN 1000 V DC
		9.1 to 1.5K	50 to 150	10	IP65	UL 600 V/1000 V
VACR250	250	3.3 to 910	50 to 150	10	IP20	EN 1000 V DC
		4.7 to 1.0K	50 to 150	10	IP20	UL 600 V/1000 V
VACR300	300	8.2 to 1.8K	50 to 150	10	IP65	EN 1000 V DC
		4.7 to 1.0K	50 to 150	10	IP20	EN 1000 V DC
VACR400	400	6.2 to 1.2K	50 to 150	10	IP20	UL 600 V/1000 V
		8.2 to 1.8K	50 to 150	10	IP20	EN 1000 V DC
VACR500	500	8.2 to 1.8K	50 to 150	10	IP20	UL 600 V/1000 V

Note

⁽¹⁾ Resistance value to be selected from E24 series, other values on request.

PULSE POWER ⁽²⁾ in W at $T_a = 40\text{ }^\circ\text{C}$ - Size 0 = 40 mm x 20 mm					
MODEL	MAX. PERMISSIBLE OPERATING VOLTAGE	PULSE TIME ⁽³⁾			
		6 %	15 %	25 %	40 %
VACR050	UL 600 V/UL 1000 V	550	200	150	100
VACR100	UL 600 V/UL 1000 V	950	400	250	150
	EN 1000 V DC	1600	650	400	250
VACR150	UL 600 V/UL 1000 V	1600	650	400	250
	EN 1000 V DC	2200	900	550	350
VACR200	EN 1000 V DC	3200	1300	750	500

Notes

⁽²⁾ Approximate value (depending on resistance)

⁽³⁾ Cycle duration of 120 s