

# V Heavy Duty Vitreous Enamelled Resistor



Heavy duty resistor mainly used for dynamic braking or where a pulse rated resistor is required.

- Power rating 250 to 750 Watts
- 4 wattage sizes available
- High short term capacity
- Good pulse capability
- Supplied with or without horizontal mounting brackets
- RoHS Compliant



## Characteristics

Tolerance (Code):	± 5% (J), ± 10% (K) value dependent
Insulation Resistance:	Terminal to ground 2kV
Load Life:	Tested for 500 cycles for a minimum of 1,000 hours
Short Time Overload:	Refer to graph. Note that performance at intervals less than 10 seconds are dependent upon resistance value. Assuming a cooling time of at least 15 minutes between duty cycles.
Load Life in Humidity:	Tested for 500 cycles for minimum 1,000 hours at 40°C ambient, 90-95% humidity.
Temperature cycling / thermal shock:	Tested from -55°C ambient under full power for 30min and from 155°C ambient under full power for 30min. 5 cycles
Temperature Coefficient:	Maximum 50ppm/°C

## Electrical Specifications

Type	Continuous Power (W) at 280°C	Dielectric Withstand Voltage (kV) across terminals	Ohmic Values		Tolerance
			Min	Max	
V200H	250	1.6	R6	7K	<25R K (10%) >25R J (5%)
V400H	400	3	R125	30K	<30R K (10%) >30R J (5%)
V600H	600	3.7	R25	75K	<50R K (10%) >50R J (5%)
V750H	750	4.4	R25	100K	<100R K (10%) >100R J (5%)

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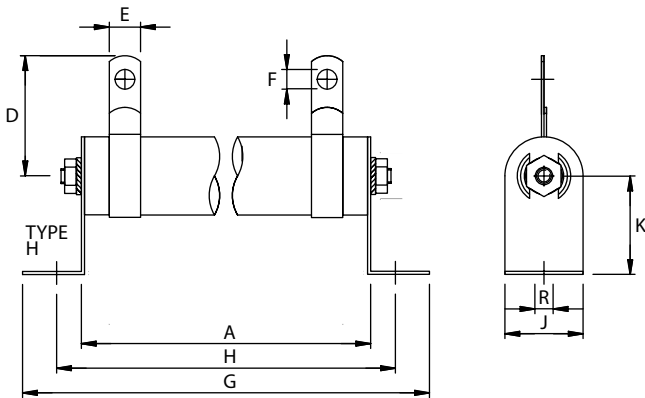
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It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.

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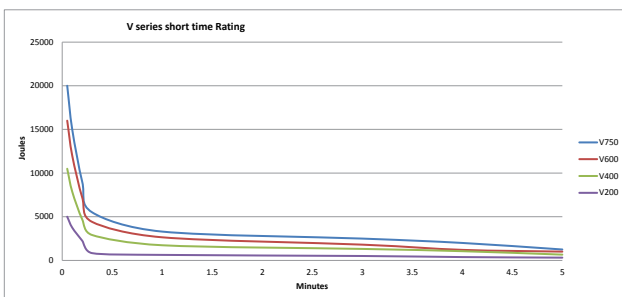


## Dimensions (mm)

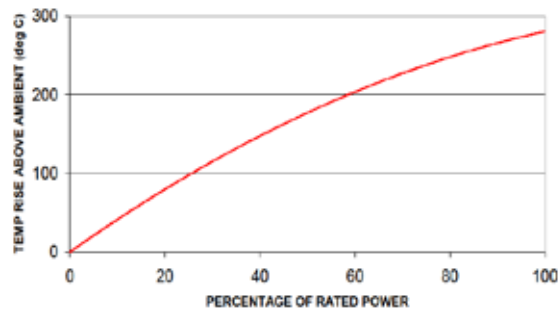


Type	A	Tube $\phi$	D	E	F	G	H	J	K	R
V200 H	152	44	43	9.5	5	190	173	44	51	7x14
V400 H	254	44	43	9.5	5	292	274	54	44	7x14
V600 H	305	54	50	9.5	5	406	384	54	76	7x17
V750 H	356	54	50	9.5	5	406	384	54	76	7x17

## Short Time Rating



## Derating Curve



## Ordering Procedure

Standard Resistor: Series, Watts, Horizontal Mounting (H), Resistance Value, Tolerance  
 e.g.: V750 H 2R2 K

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