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DURAKOOL®

XV2 Series
High Power Pre-Charge Resistors



- Pre-charge & discharge resistors
- Intrinsically safe
- Slim profile, aluminium housed
- Automotive grade
- Non-inductive windings available
- Power rating from 40W to 70W
- Resistance ranges from 10Ω to 250Ω
- Tolerances of 0.5%,1%, 5% 10%
- 6.3mm blade terminals

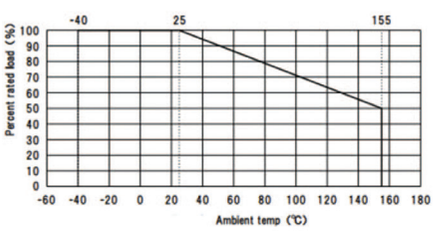
RoHS Compliant ✓

Performance Data — **Table 1**

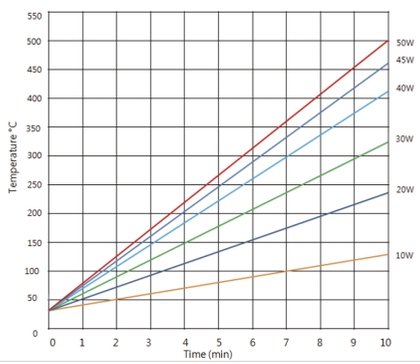
Resistance range	10Ω ~ 250Ω
Resistance tolerance	0.5%, 1%, 5%, 10%
Power	40W ± 5% (without heatsink) / 70W ± 5% (with heatsink)
TCR	260ppm/°C
Design voltage	√(P x R)
Maximum voltage	850VDC
Maximum current	15A
Dielectric withstand voltage	2500VAC
Insulation resistance	1MΩ
Operating temperature	-40°C ~ +155°C ± 2% +0.05Ω
Load life	200,000 cycles ± 3% +0.05Ω
Short duration	200ms @ 15A, ± 2% +0.05Ω
Mechanical vibration	100G, 6ms Half sine, 3 times/axis, Total 6 axis ± 1% +0.05Ω
Short term overload	10X for 5sec ± 2% +0.05Ω
Short circuit	Pulse Duration: 200ms, Cycle time: 2sec 1 Time: 5 cycles. Total: 5 times ± 2% +0.05Ω
Weight (g)	45 ± 5

Performance graphs — **Fig. 1**

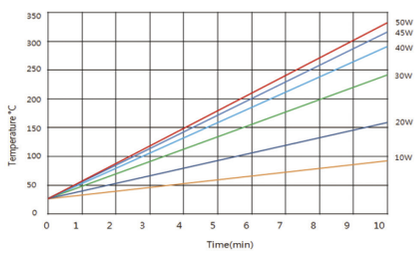
Power derating curve



Free air surface temperature rise



Surface temperature rise mounted to a 150 x 2mm heatsink

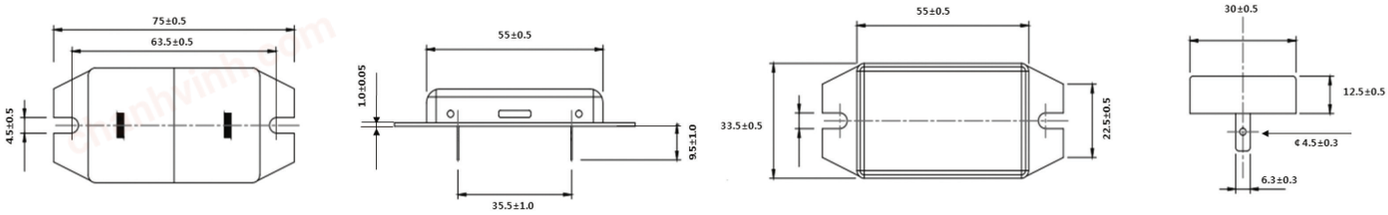


Specifications are subject to change without notice. E&OE.

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Dimensions (mm) — Fig. 2



Example Ordering Code

XV2 - 40 - 100 - J - I - [ ][ ][ ]

Series	Power (W)	Resistance Ω	Tolerance ± %	Windings	
XV2	40	10Ω ~ 250Ω	D ± 0.5 F ± 1 J ± 5 K ± 10	Blank = standard N = Non- Inductive	Reserved for custom modifications

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