



**Power Resistors
Cooled by Auxiliary
Heatsink (Not supplied)**

- Thick film technology
- System without external radiation
- High power / Volume ratio
- Non inductive
- Screw on outputs
- Possible configuration with 2 or 3 resistors

GENERAL CHARACTERISTICS

Dielectric base :	alumina
Resistive circuit :	Thick film
Encapsulation :	resin filled in housing
Ω Serial :	E12
Tolerance on ohmic value :	± 10% / ± 5% on request
Insulation :	10 ⁵ MΩ 500V DC
Temperature coefficient :	± 150 ppm /°C (typical)
Temperature limits:	-55°C to +150°C
Materials in accordance with	UL 94-V0
Type	Single value Double value
PUISSANCE MAXIMUM à 75°C	400 W 2 x 180W
Min. Ohm value :	1 Ω 1,5Ω
Max Ohm value :	1 MΩ 1 MΩ

ADDITIONAL CHARACTERISTICS :

Type	Single value	Double value
Max.operating voltage between terminals	4000V	
Withstand voltage (Vrms 50Hz 1mn)	6000V	
Partial discharge	< 20 pC at 5000Veff	
Creep distance	> 42mm	
Clearance distance	> 12mm	>10mm
CTI Index	> 600	
Self inductance	< 40 nH	
Weight	75 g	

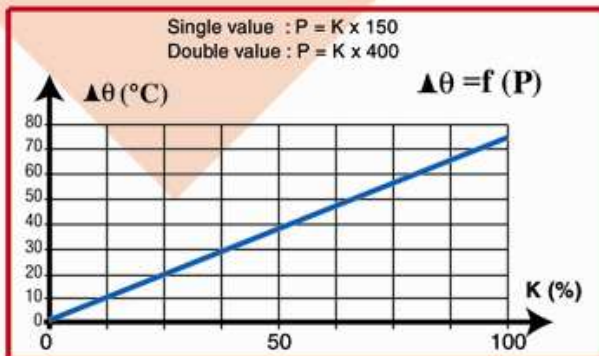


PERFORMANCES

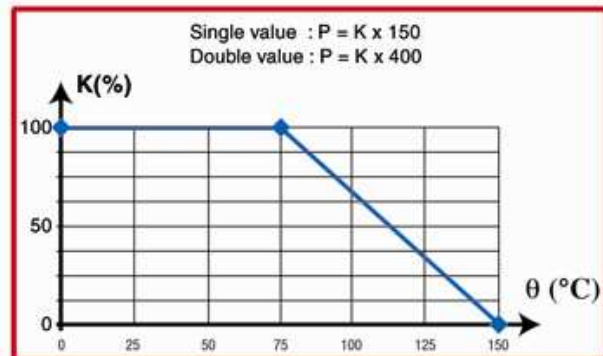
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES
Overload single value	800 W / 10s	2 %	0,2 %
Overload double value	2 x 360 W / 10s	2 %	0,2%
Damp heat	56 days 40°C 95% HR	2% or 0,05 Ω *	0,2 %
VRT	-55 +125°C 5 cycles	2% or 0,05 Ω *	0,2 %
Shocks	IEC 60115-4 clause 2-3-6	0,5% or 0,05 Ω *	0,25 %
Vibrations	IEC 60115-4 clause 2-3-2	0,5% or 0,05 Ω *	0,25 %
Terminals strenght	130 Ncm / 100 N	1% or 0,05 Ω *	0,1 %
Endurance	2000 cycles Pn 30mn / 30mn	5 %	0,2 %

* The higher of either value

DISSIPATION

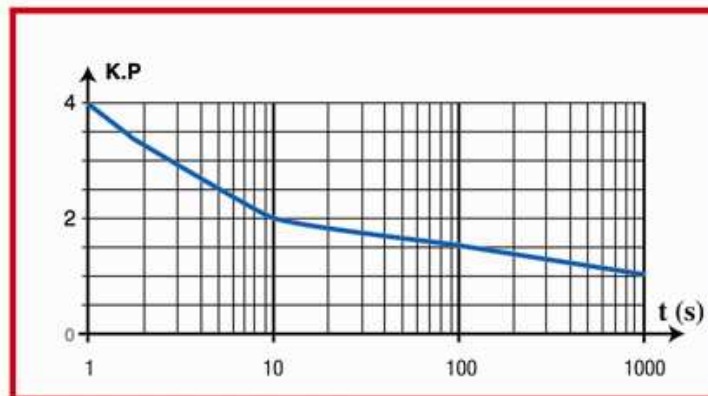


Overall thermal resistance 0,1875°C/W (Double value : 0.2083°C/w)
Temperature rise as a function of the power applied



Permanent applicable power as function of heatsink temperature

OVERLOAD



Intermittent overload (exceptional operation)

ENERGY

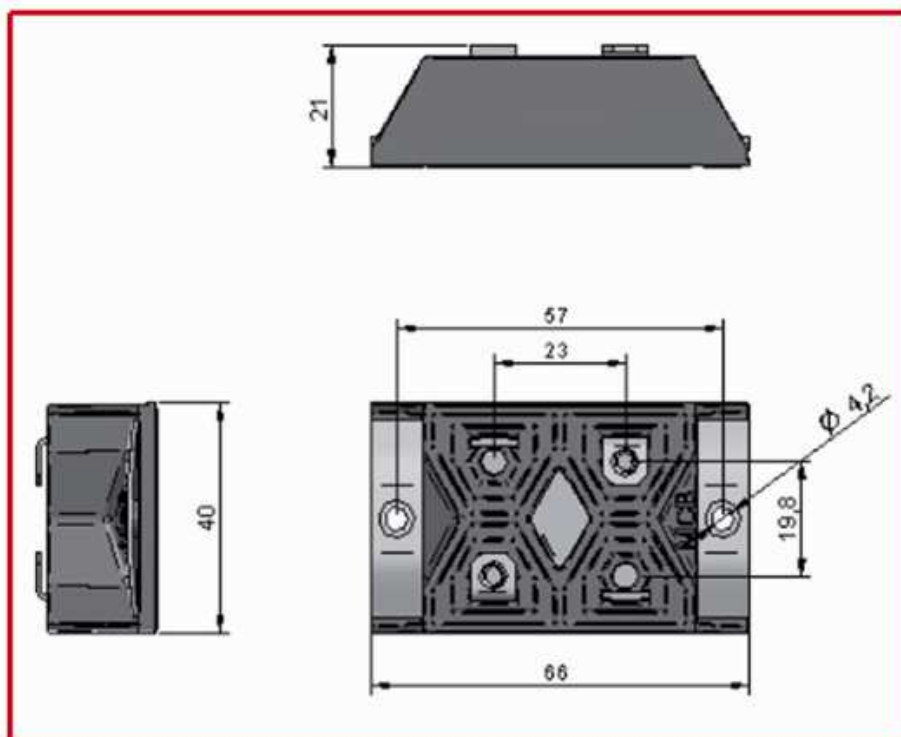
Single Value

Repetitive operation : $2 \text{ J} / \tau = 50\mu\text{s}$
Other values of τ : Consult us

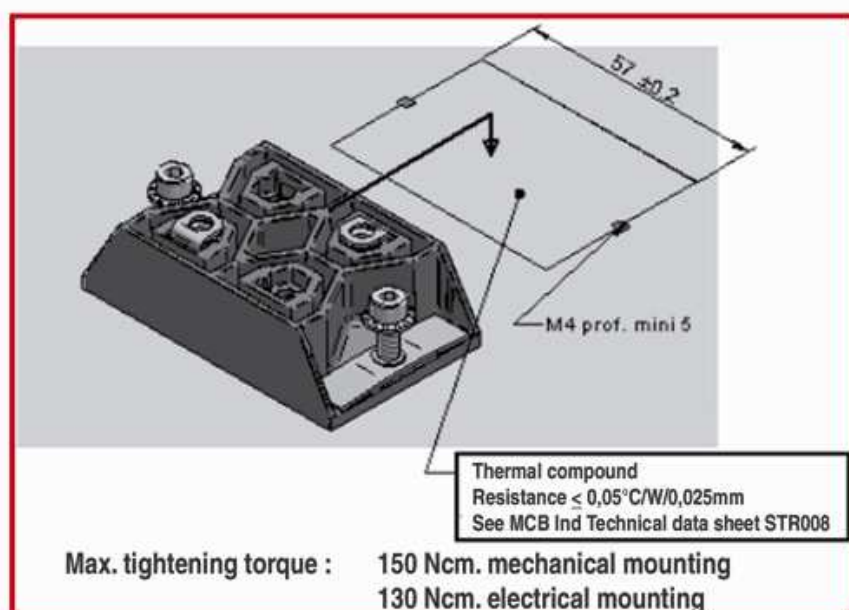
Double Value

Repetitive operation: $2 \times 1 \text{ J} / \tau = 50\mu\text{s}$
Other values for τ : Consult us

DIMENSIONS



ASSEMBLY



COOLING

The temperature of the heatsink may be maintained at the specified values with :

- forced air ventilation-
 - internal circulation of a cooling liquid
- | | |
|---|-----------------|
| Heatsink contact surface : | Ra 6,3 μ ▽▽ |
| Evenness defect : | 0,05 mm max |
| Surface temperature gradient (isotherm) : | 20 °C max |
| Thermal compound not supplied (Resistance \leq 0,05°C / W / 0,025 mm) | |

THE USER MUST SELECT THE THERMAL RESISTANCE OF THE HEATSINK ACCORDING TO THE POWER APPLIED

HOW TO MAKE YOUR ORDER

