



POWER RESISTOR COOLED BY AUXILIARY HEATSINK (not supplied)

- Technology : thick film deposited on ceramic
- Cold system without external radiation
- High power/volume ratio
- Non inductive
- Easy assembly, self-calibrated pressure (400 N)

GENERAL CHARACTERISTICS

Dielectric base:	alumina
Resistive circuit:	cermet
Encapsulation:	resin filled case
Ω Serie:	E12
Standard tolerance:	+5% ou + 10%
Insulation:	10 ⁵ MΩ sous 500 Vcc
Temperature coefficient:	+ 150 ppm/°C
Temperature range:	-55°C à +150°C
Materials complies with the standard UL 94-V0	
MAXIMUM POWER at 75 °C:	750 W
Min. ohm value:	1Ω
Max. Ohm value:	1MΩ

SPECIFIC CHARACTERISTICS

TYPE	750	750H	750HV
Max. operating voltage between terminals	5000 V		
Max. test voltage (Vrms 50 Hz 1 min)	7000 V	12000 V	12000 V
Creeping distance	42 mm	42 mm	75 mm
Clearance distance	12 mm	26 mm	30 mm
Capacitance/ground	120 pf		
Capacitance/parallel	40 pf		
Self inductance	≤40 nH		
Partial discharge	≤500 pC/7000 Veff ≤10 pC/5000 Veff Other cases : consult us		
Weight	120 g max		

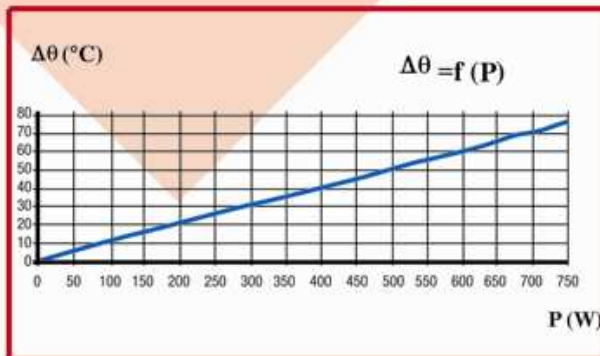


PERFORMANCES

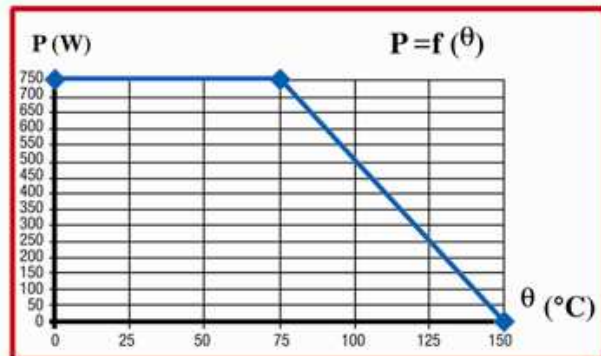
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES
Overload	1200W/10sec $\theta=70^{\circ}\text{C}$	2%	0,2 %
Damp Heat	56 jours 40°C 95% HR	2% or $0,05\Omega^*$ isol $>10^3\text{M}\Omega$	0,2 %
VRT	$-55 +125^{\circ}\text{C}$ 5 cycles	2% or $0,05\Omega^*$	0,2 %
Shock	40A / 4000	0,5% or $0,05\Omega^*$	0,25 %
Vibrations	500 / 10	0,5% or $0,05\Omega^*$	0,25 %
Terminal strength	200Ncm / 200N	1% or $0,05\Omega^*$	0,1 %
Endurance	2000 cycles Pn 30mn / 30mn	5%	0,2 %

*The higher of either value

DISSIPATION

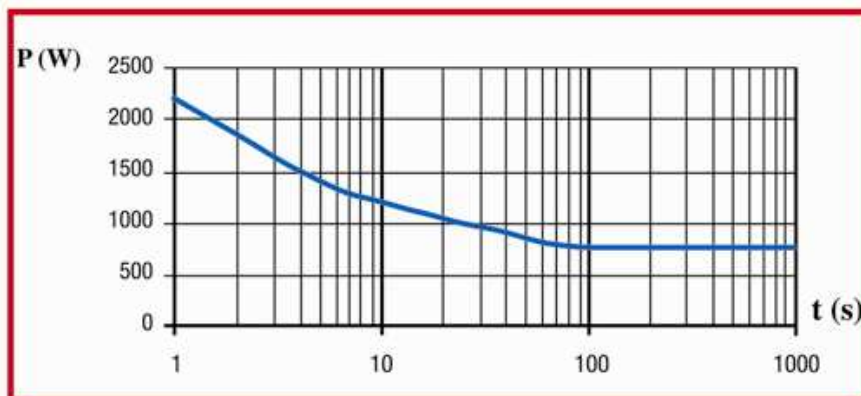


Overall thermal resistance $0,10^{\circ}\text{C/W}$ (see assembly)
Temperature rise as a function of the power applied



Permanent applicable power as a function of heatsink temperature

OVERLOAD



Intermittent overload (exceptional operation) Heatsink temperature 70°C

ENERGY

$R < 390 \Omega$

Repetitive Operation :

$$8 \text{ J} / \tau = 50 \mu\text{s}$$

Accidental Operation :

$$20 \text{ J} / \tau = 50 \mu\text{s} / 120 \text{ impulsions max}$$

$R > 390 \Omega$

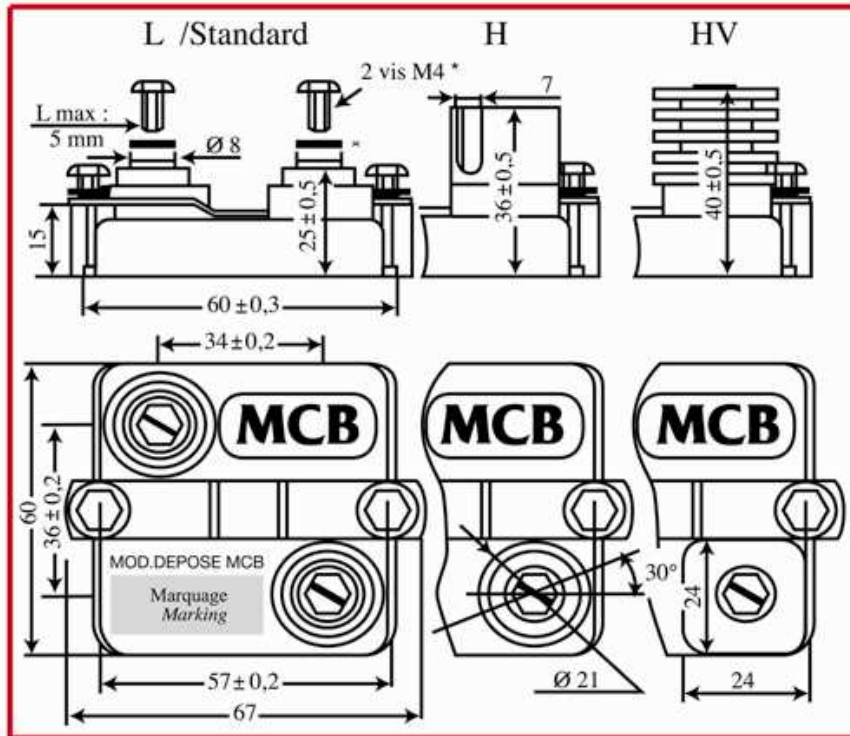
Repetitive Operation :

$$4 \text{ J} / \tau = 50 \mu\text{s}$$

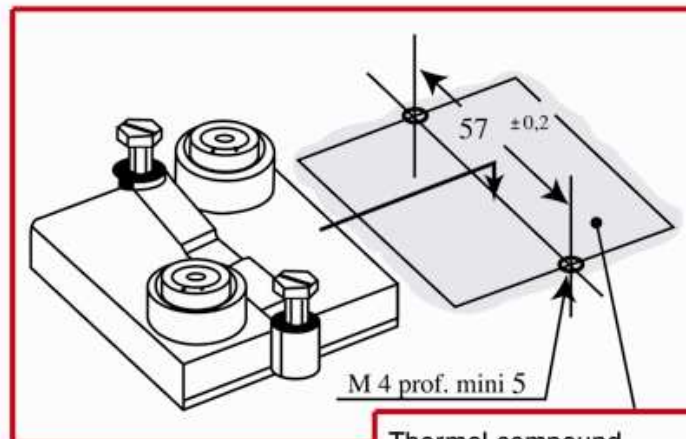
Other τ Values :

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DIMENSIONS



ASSEMBLY



Thermal compound
Resistance < 0,05 °C / W / 0,025 mm
See MCB Ind Data Sheet STR008

Screws and bolts supplied
Max. tightening torque:

200 Ncm. mechanical mounting
200 Ncm electrical connections

COOLING

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

- forced air ventilation
 - internal circulation of a liquid cooling
- | | |
|---|-----------------|
| 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 <0,05°C / W / 0,025 mm) | |

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

COMMENT LIBELLER VOTRE COMMANDE

