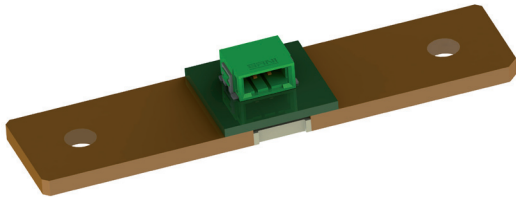




ISA-WELD® // PRECISION RESISTORS



BAC // SIZE 8420 (METRIC)



Features

- Up to 10 W permanent power
- Continuous current load up to 320 A (0.1 mOhm)
- High pulse power rating
- Max. fastening torque 10 Nm
- Shunt available with tinned or untinned terminals
- PC board with connector for voltage sensing



Applications

- Current sensor for EBM (Electronic Battery Management) in motorcars, trucks, forklifts, hybrid and electric vehicles
- Current sensing in bus bars
- Current sensing in welding equipments

Technical data

Resistance values	mOhm	0.1
Tolerance	%	5
Temperature coefficient (20-60 °C)	ppm/K	< 150
Applicable temperature range	°C	-10 to +125
Power rating	W	10
Internal heat resistance (R _{thi})	K/W	2
Thermal EMV (0-60 °C)	µV/K	<1
Inductance	nH	<3
Stability (Nominal load) deviation after 2,000h T _K = Terminal temperature		<0.5 % (T _K = 105 °C)

Ordering code

BAC - M - R0001 - 5.0

.....	Tolerance
.....	Resistance value [Ohm] / „R” represents decimal point
.....	Material (MANGANIN®)
.....	Type

Packaging information

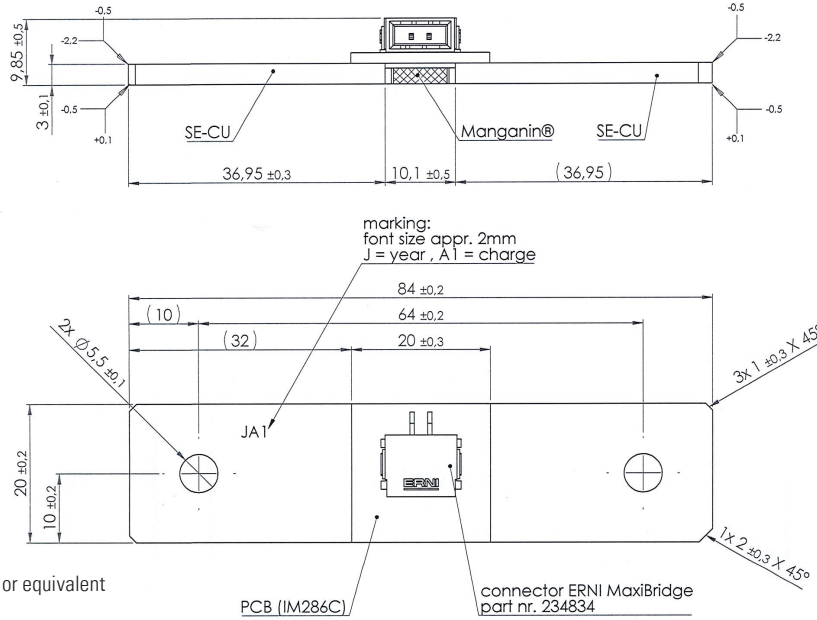
Delivery in cardboard trays

30 pcs. per tray, 1,260 pcs. per batch

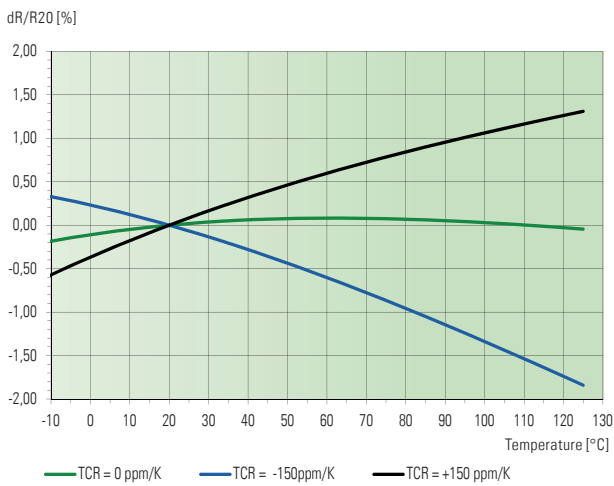


BAC // SIZE 8420 (METRIC)

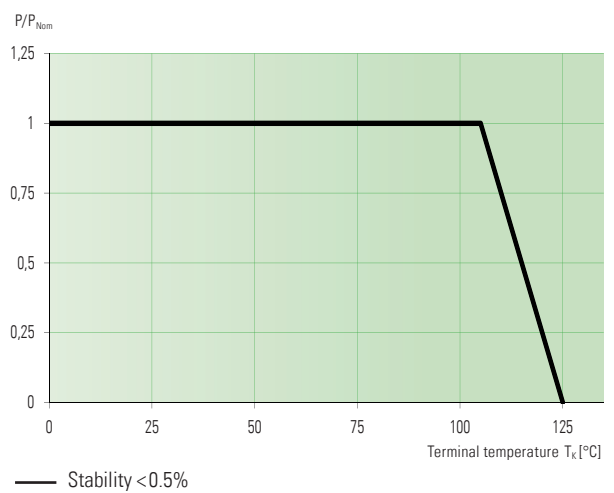
Mechanical dimensions [mm] // Drawing no. Z-YJ-271



Temperature dependence of the electrical resistance



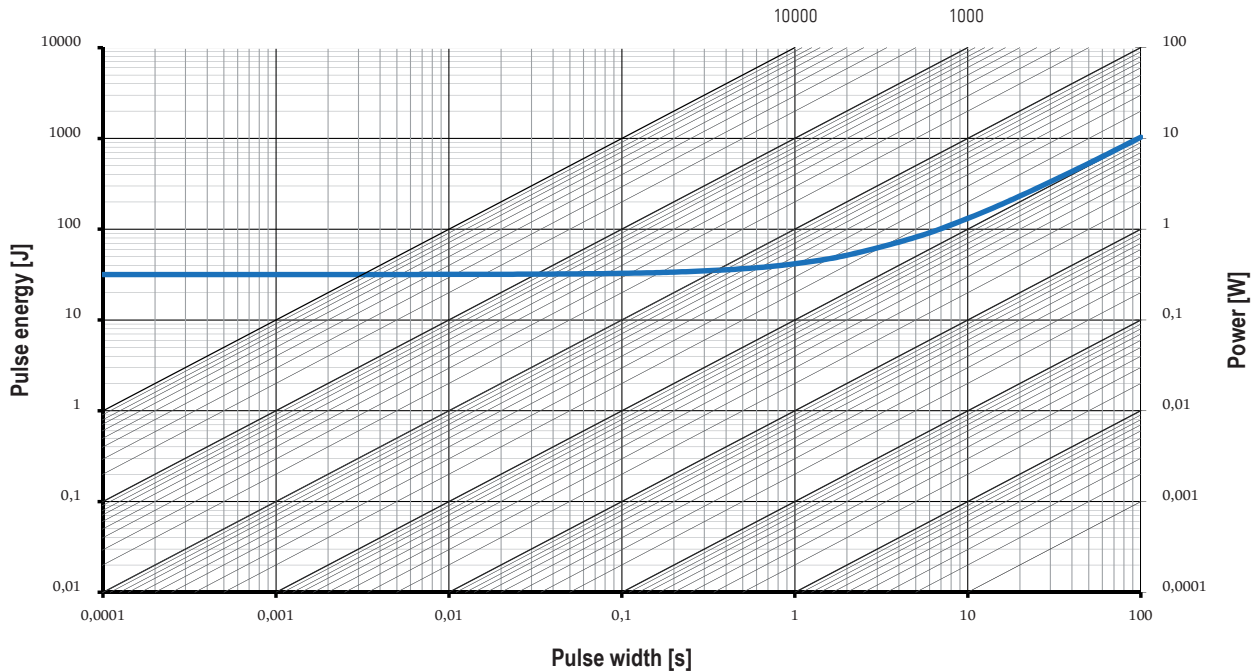
Power derating curve





BAC // SIZE 8420 (METRIC)

Maximum pulse energy respectively pulse power for permanent operation



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