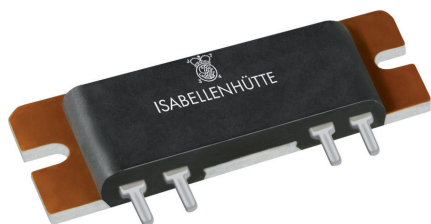




ISA-PLAN® // PRECISION RESISTORS

AZ-H



Features

- Power rating up to 10 W
- Constant current up to 70 A (2 mOhm)
- Very high precision of tolerance and TCR
- 4-terminal connection
- Low self-heating
- RoHS 2011/65/EU compliant



Applications

- Measurement equipment
- Reference resistors in laboratories
- Current sources
- Laboratory power supplies

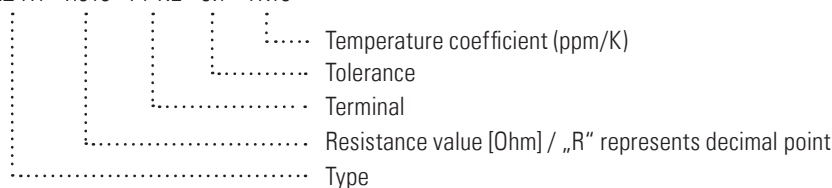
Technical data

Resistance values *	Ohm	0.002 to 5
Tolerance *	%	0.1 / 1
Temperature coefficient (20-60 °C)	ppm/K	<3 / 10
Applicable temperature range	°C	-55 to +140
Power rating	W	3 / 10 (on a heatsink)
Thermal resistance to ambient (Rth)	K/W	<15
Thermal resistance to aluminium substrat (Rthi)	K/W	<3
Dielectric withstanding voltage	V AC/DC	500
Inductance	nH	<10
Stability (Nominal load) deviation after 2000h T _K = Terminal temperature		<0.1 % (T _K = 80 °C with heatsink), <0.2 % (T _K = 95 °C with heatsink)

* See all standard values on page 3

Ordering code

AZ-H1 - R010 - F1-K2 - 0.1 - TK10



Packaging Information

Tray

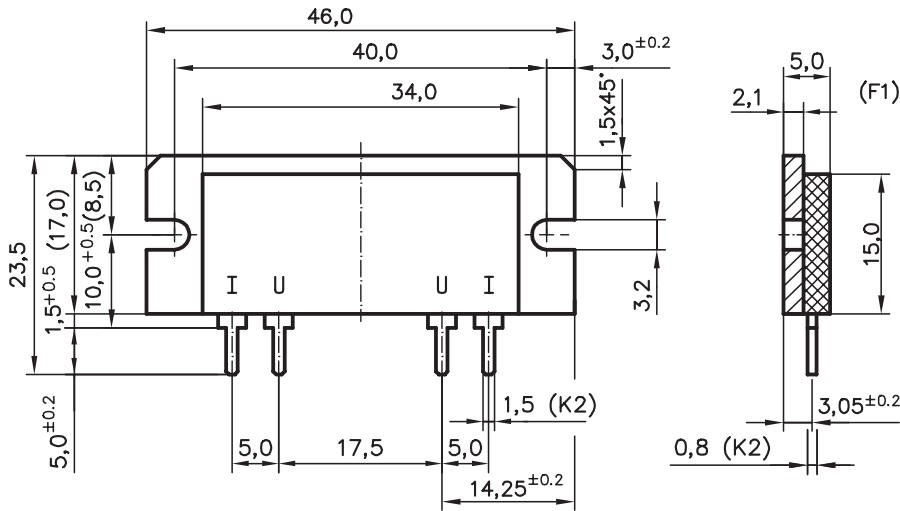
Parts per tray AZ-H1	40
Parts per tray AZ-H2	50



AZ-H

Mechanical dimensions [mm]

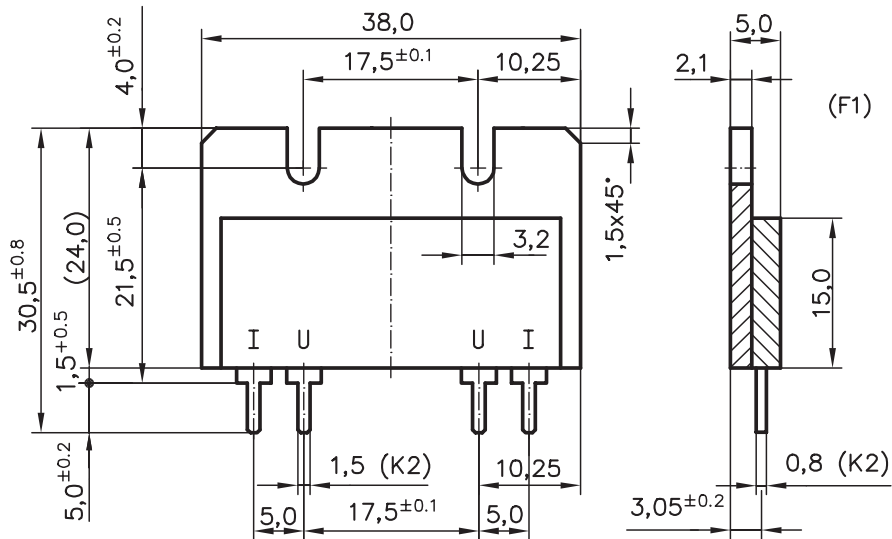
Version AZ-H1 with standard terminal F1-K2



Z-YW-032a

Mechanical dimensions [mm]

Version AZ-H2 with standard terminal F1-K2

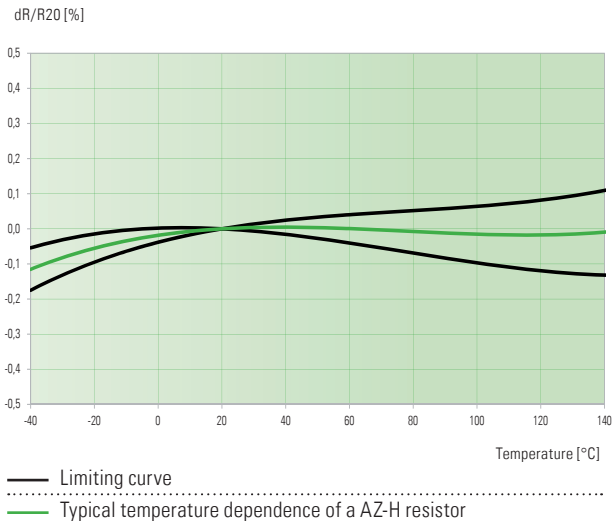


Z-YW-033a

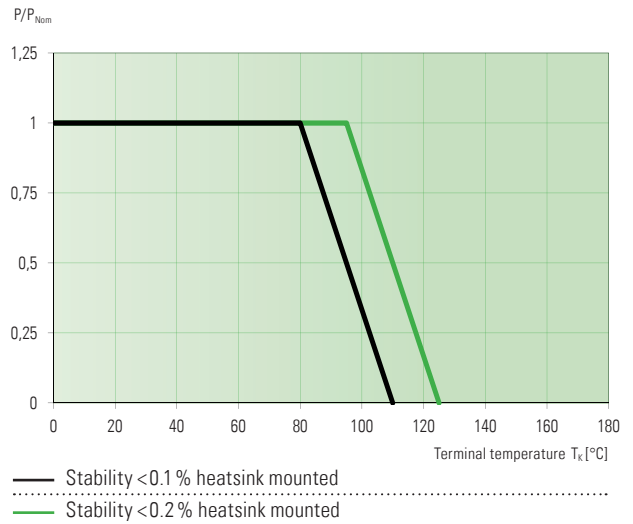


AZ-H

Temperature dependence of the electrical resistance of AZ-H resistors (range ±10 ppm/K)



Power derating curve



Available standard resistance values and tolerances*

Resistance values AZ-H1	Tolerance	
	0.1	1.0
R010	✓	✓
R020	✓	
R022	✓	
R050	✓	
R060	✓	
R100	✓	
1R00	✓	
5R00	✓	

Resistance values AZ-H2	Tolerance	
	0.1	1.0
R002		✓
R005		✓
R010	✓	
R100	✓	
1R00	✓	

* Further values and tolerances on request
✓ = available

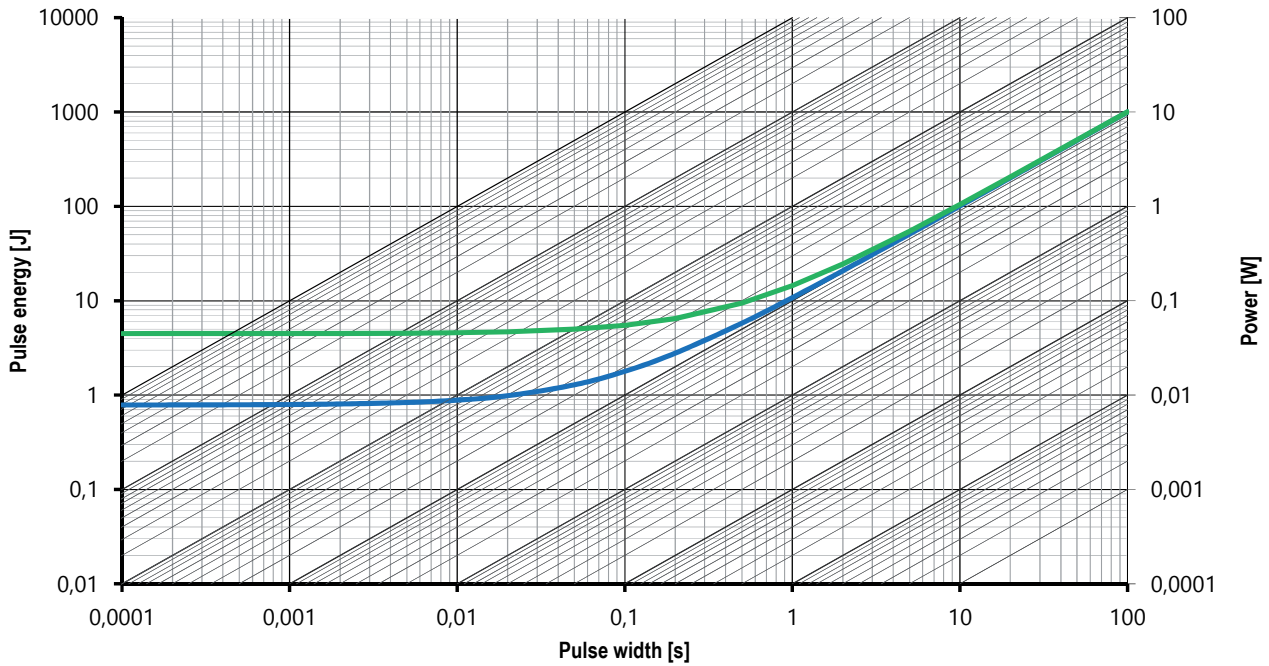


AZ-H

Maximum pulse energy respectively pulse power for permanent operation

AZ-H-5R00, AZ-H-R002

Maximum pulse energy / power continuous operation ($T_K = 95\text{ °C}$) on a heatsink



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