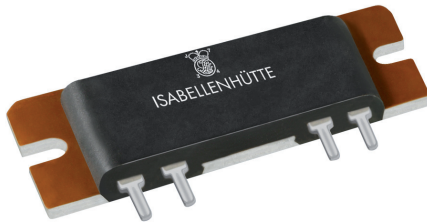




ISA-PLAN® // PRECISION RESISTORS



AZ-H



Features

- Up to 10 W permanent power
- Max. permanent current: 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 1
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)

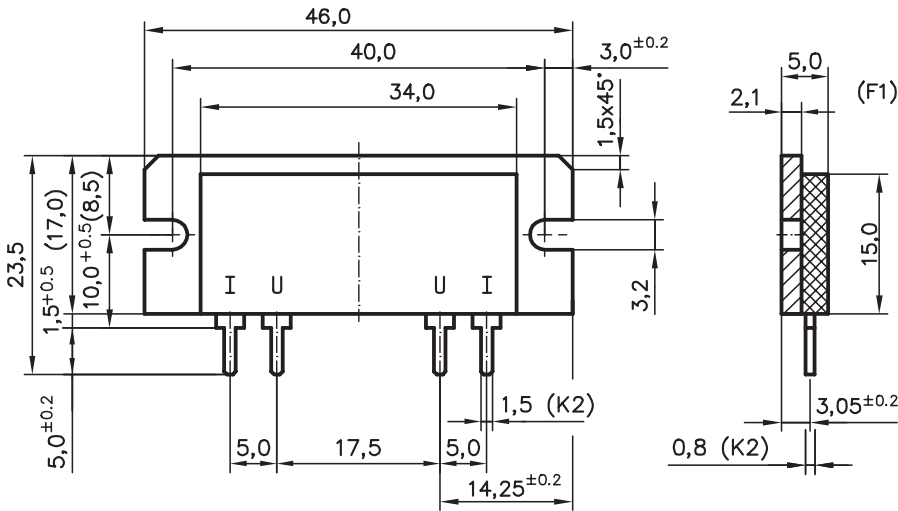
* See all standard values on page 4



AZ-H

Mechanical dimensions [mm]

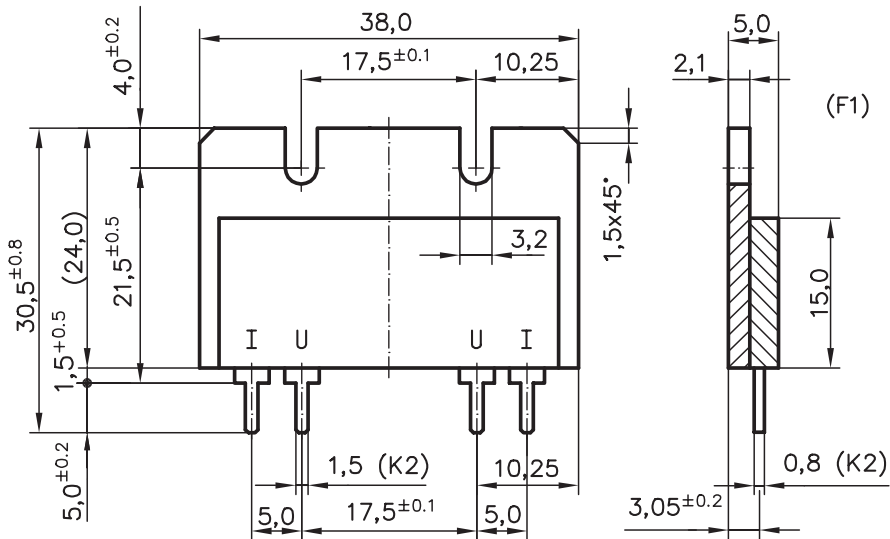
Version AZ-H1 with standard terminal F1-K2



Z-YW-032a

Mechanical dimensions [mm]

Version AZ-H2 with standard terminal F1-K2

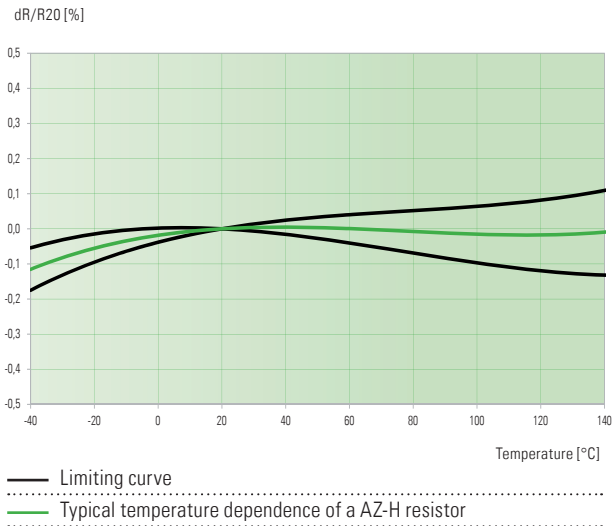


Z-YW-033a

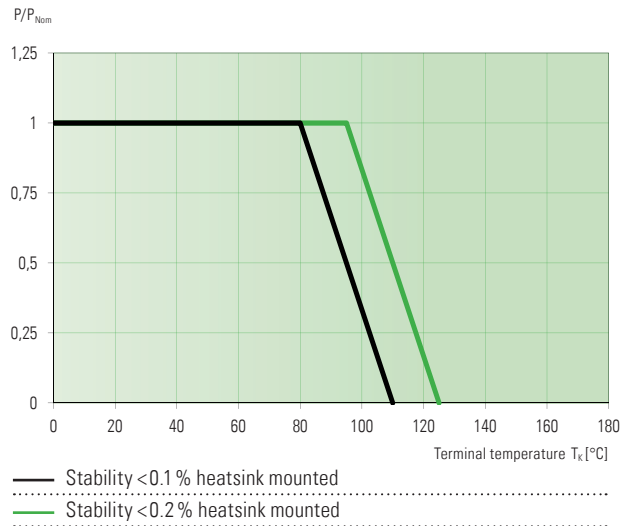


AZ-H

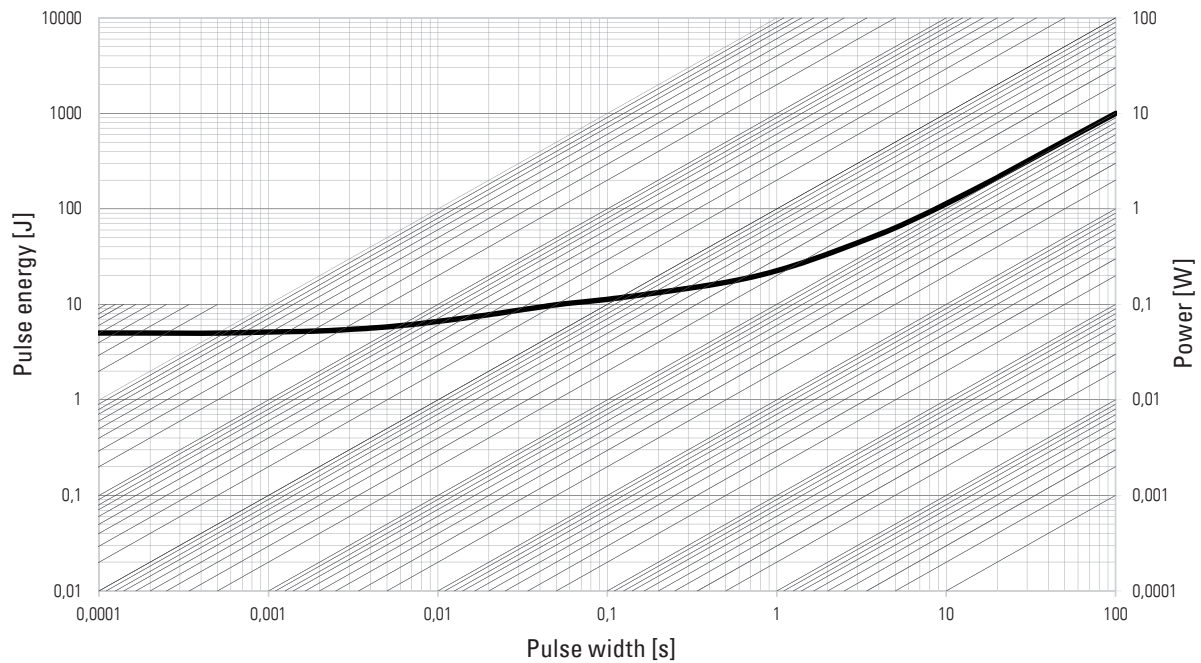
Temperature dependence of the electrical resistance of AZ-H resistors (range ±10 ppm/K)



Power derating curve



Maximum pulse energy respectively pulse power for permanent operation



This curve is only valid for the resistance value R005. The progression of the curve in the lower range could be different for other resistance values. Therefore a separate qualification should be made in thresholds.



AZ-H

Available standard resistance values and tolerances*

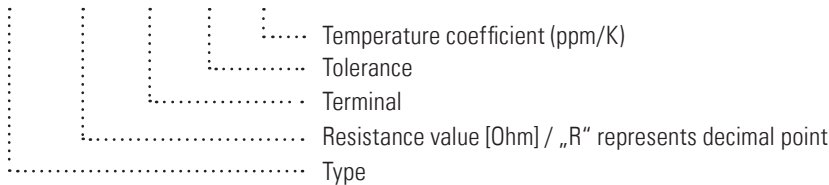
Resistance values AZ-H1	Tolerance	
	0.1	1.0
R010	✓	✓
R020	✓	
R022	✓	
R050	✓	
R100	✓	✓
1R00	✓	

Resistance values AZ-H2	Tolerance	
	0.1	1.0
R002		✓
R005		✓
R010	✓	
R100	✓	
R330	✓	
1R00	✓	

* Further values and tolerances on request
 ✓ = available

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

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