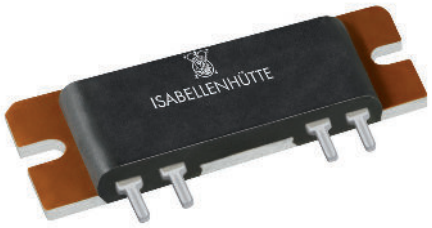
ISABELLENHÜTTE
Innovation by Tradition

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

RoHS

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

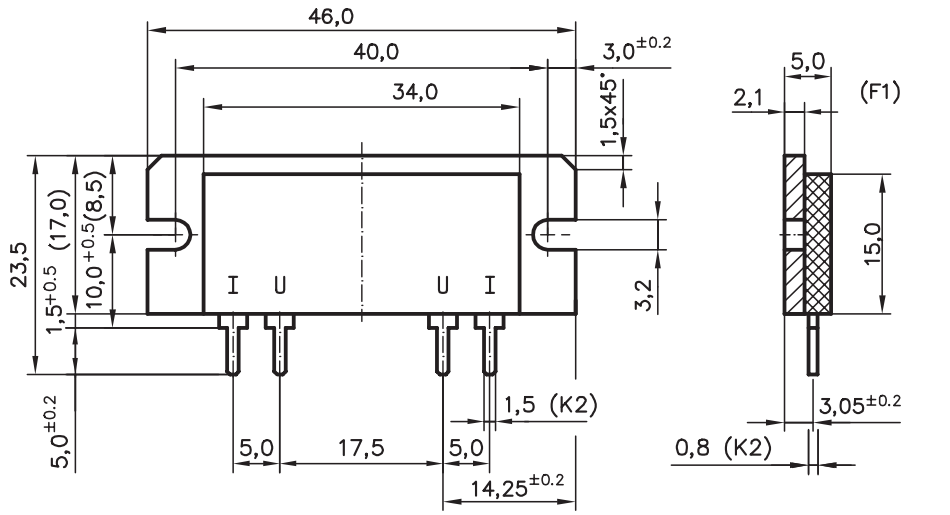
AZ-H1 - R010 - F1-K2 - 0.1 - TK10

- TK10 — Temperature coefficient (ppm/K)
- 0.1 — Tolerance
- F1-K2 — Terminal
- R010 — Resistance value [Ohm] / „R“ represents decimal point
- AZ-H1 — Type

Packaging Information	Tray
Parts per tray AZ-H1	40
Parts per tray AZ-H2	50

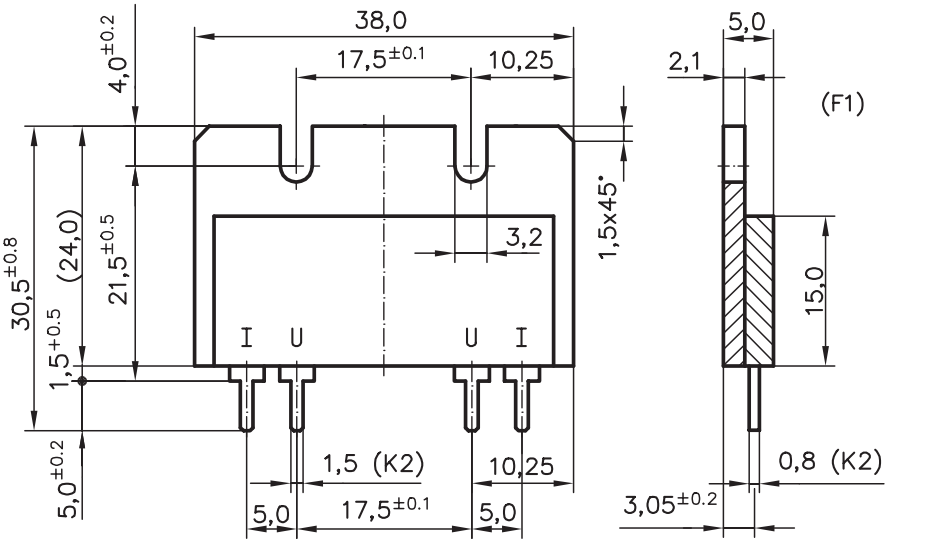
AZ-H

Mechanical dimensions [mm]
Version AZ-**H1** with standard terminal F1-K2



Z–YW–032a

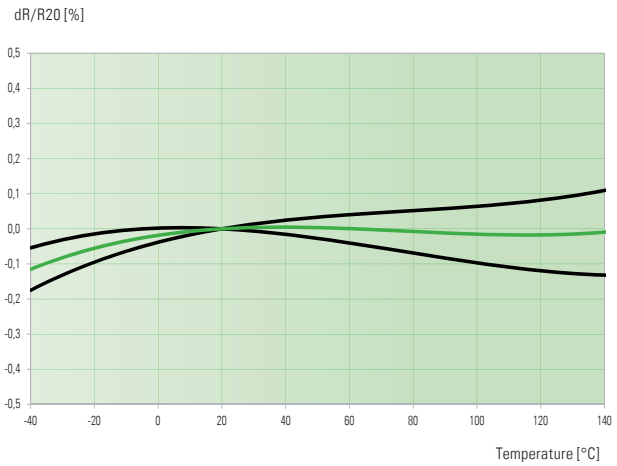
Mechanical dimensions [mm]
Version AZ-**H2** with standard terminal F1-K2



Z–YW–033a

AZ-H

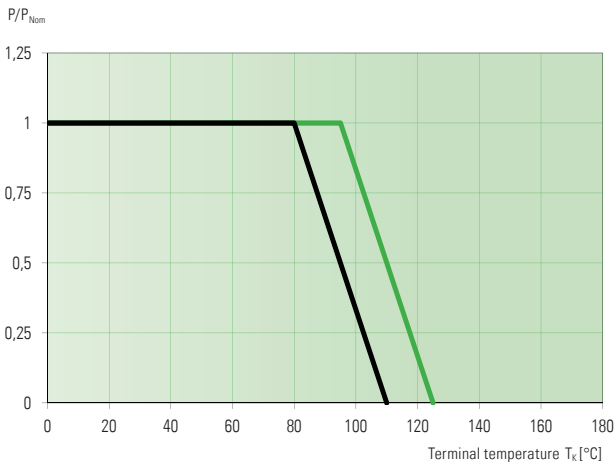
Temperature dependence of the electrical resistance of AZ-H resistors (range ±10 ppm/K)



Limiting curve

Typical temperature dependence of a AZ-H resistor

Power derating curve



Stability <0.1 % heatsink mounted

Stability <0.2 % heatsink mounted

Available standard resistance values and tolerances*

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

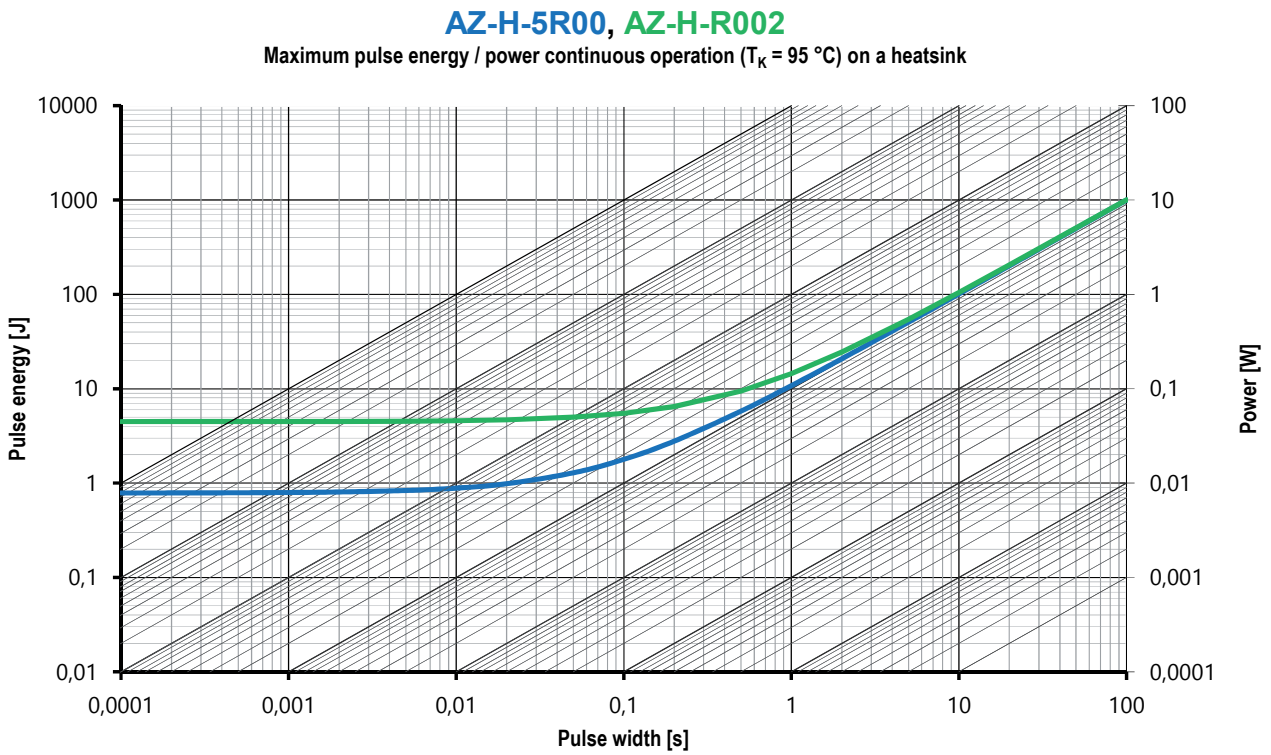
Resistance values AZ-H2	Tolerance	
	0.1	1.0
R002		✓
R005		✓
R010	✓	
R100	✓	
1R00	✓	

* Further values and tolerances on request

✓ = available

AZ-H

Maximum pulse energy respectively pulse power for permanent operation



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