EVO9050A-X Resistance Standards



Mess- und Prüftechnik. Die Experten.

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we<mark>komm</mark>

Technical Data

Applications

- Transfer Standards
- Working Standards
- Reference Resistors
- Calibration

Features

- Mechanically robust and stable
- No special requirements for operation temperatures
- No oil bath required
- Long term stability better 1ppm / year
- Low impacted from temperature hysteresis
- Temperature stability typically better than 1 ppm / °C
- Operational range from 20°C to 30°C
- Low Cost
- Made in Germany

High performance, precision and stability for a budget friendly price - these are the key elements defining the new EVO9050A series resistors. These standard resistors are the result of many years in research and development. Every component for this product is based on experience to deliver the best performance in it's class. The resistive elements are based on the wekomm ARR-modules, our new Adjustable Reference Resistors which allow to meet a specific target value with sub-ppm precision together with reference stability. No compromise is made at the quality and used components. The binding posts are made from Copper-Tellurium for low thermal effects and gold coated for best electrical contact. A rugged aluminum case protects the standard resistor from harsh environments and offers a maximum of mechanical stability. Each resistance standard comes with a calibration certificate, on request an ISO 17025 accredited calibration is available. The issued certificate of calibration is part of delivery. The EVO9050A series is divided into two ranges, the standard range covers the decade values, the extended range allows to offer a broad vari-



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EVO90 Resista

Temp.: Max. V Max. A Nomin

Picture shows a prototype device Final product might differ

ety of non standard values. The EVO9050A series is the perfect workhorse for daily use in laboratory and calibration applications.

Specifications



standard range

				Drift pe						Accredited Cali- bration* ²
		(μΩ/Ω)		(μΩ/Ω)		(μΩ/Ω/°C)				
Model										
EVO9050A-10	10	30	10	10	5	5	3	100	5	*2
EVO9050A-100	100	10	3	5	2	2	1	50	10	*2
EVO9050A-1K	1K	10	3	5	2	2	1	50	10	*2
EVO9050A-10K	10K	10	3	5	2	2	1	10	10	*2
EVO9050A-100K	100K	30	10	10	5	5	3	2	50	*2

extended range

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EVO9050A-5	5	50	10	10	5	5	3	100	5	*2
EVO9050A-20	20	50	10	5	5	5	3	100	5	*2
EVO9050A-50	50	10	5	5	2	3	1	50	10	*2
EVO9050A-200	200	10	5	5	2	3	1	50	10	*2
EVO9050A-2K	2K	10	5	5	2	3	1	10	10	*2
EVO9050A-5K	5K	10	5	5	2	3	1	10	10	*2
EVO9050A-20K	20K	30	10	10	5	5	3	2	50	*2
EVO9050A-50K	50k	30	10	10	5	5	3	2	50	*2
EVO9050A-200K	200K	30	10	10	5	5	3	2	50	*2

*1 After sufficient stabilization time, typical one year *2 Uncertainty depending on CalLab - for specifications or special requirements contact us prior to ordering

Ordering Information

Model:

EVO9050A-10 10Ω resistance standard EVO9050A-100 100Ω resistance standard EVO9050A-1K 1KΩ resistance standard EVO9050A-10K 10KΩ resistance standard EVO9050A-100K 100KΩ resistance standard

EVO9050A-5 5Ω resistance standard EVO9050A-20 20Ω resistance standard EVO9050A-50 50Ω resistance standard EVO9050A-200 200Ω resistance standard EVO9050A-2K 2KΩ resistance standard EVO9050A-5K 5KQ resistance standard EVO9050A-20K 20KΩ resistance standard EVO9050A-50K 50KΩ resistance standard EVO9050A-200K 200KΩ resistance standard

Operation temperature: 20°C to 30°C Storage temperature: 0°C to 40°C repetitive Error (Hysteresis): 30°C to 20°C to 30°C: neglectable Error Size: 10cm (H) x 10cm(W) x 11,5cm(D) Weight: 0,8kg - 1,5 kg depending on model





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Oct. 2022 © 2022 wekomm engineering GmbH Picture shows a prototype device. Final product might differ

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