



WAT (2512)

NEW in WAX-series

Shunt with small size, high power, lowest TCR



INTRODUCTION

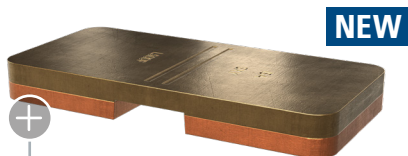
Our component series of roll clad current sensing resistor WAX is extended by a new component family WAT in size 2512.

APPLICATIONS

- High current applications for the automotive market (e. g. EPS, colling fan, e-latch)
- Frequency converter
- Motor controls in drones, e-bikes and e-scooter

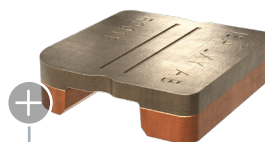
FEATURES

- Constant current up to 95 A (0.5 mΩ)
- Excellent TCR of 0 ± 50 ppm/K
- 5 W power rating event at 140°C (0.5 mΩ)
- Extra large terminals for best-in-class power rating
- Very robust during temperature cycles



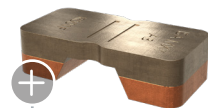
WAT size 2512

R-Values: 0.2 to 0.75 mΩ
Power: up to 10 W



WAF size 1213

R-Values: 0.5 to 1 mΩ
Power: up to 7 W



WAK size 1206

R-Values: 0.5 to 1 mΩ
Power: up to 6 W

Series	Size	Resistance value [mΩ]	TCR [ppm/K]	Rthi [K/W]	P70°C [W]
WAT	2512	0.2 - 0.75	0 ± 50	from 6	10
WAF	1213	0.5 - 1	0 ± 40 (MANGANIN®) 30 ± 40 (ZERANIN®)	from 7	6
WAK	1206	0.5 - 1	50 ± 50	from 3	6

WAT (2512)

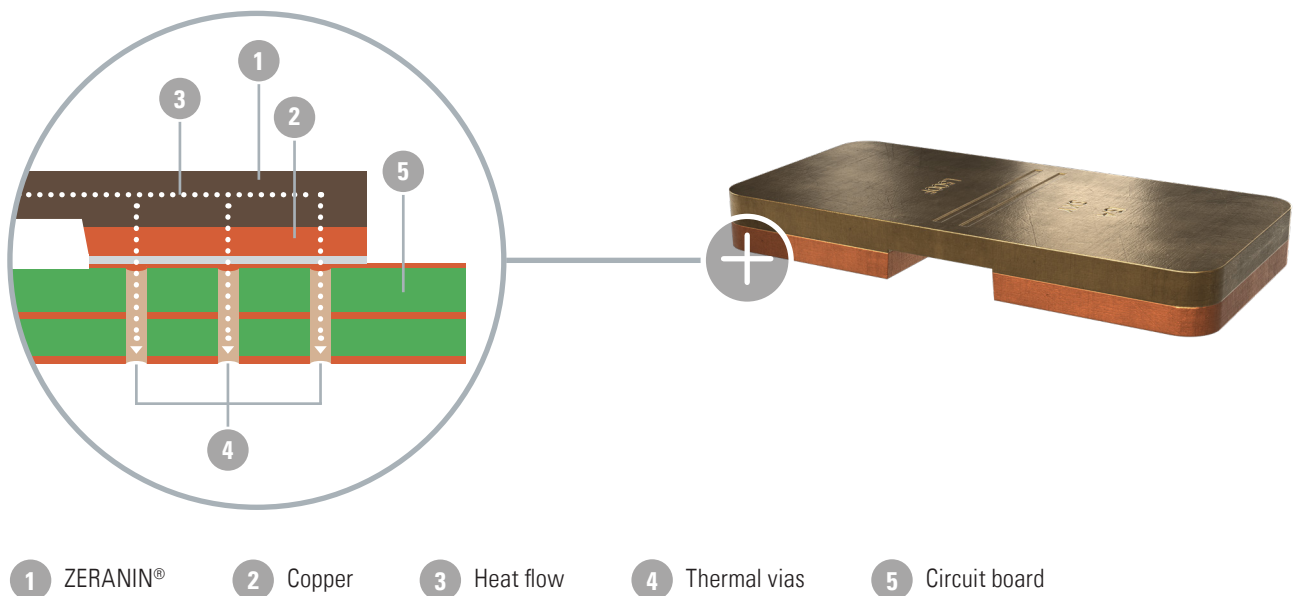
EXCELLENT TEMPERATURE COEFFICIENT

TCR-curve of low resistance WAT-Z-L200 (200 $\mu\Omega$) shows an excellent TCR of 0 ± 50 ppm/K.



OPTIMIZED HEAT DISSIPATION

Large terminals: 3.05 x 2.75 mm; enough space for some thermal vias to optimize the heat dissipation.



- 1 ZERANIN® 2 Copper 3 Heat flow 4 Thermal vias 5 Circuit board