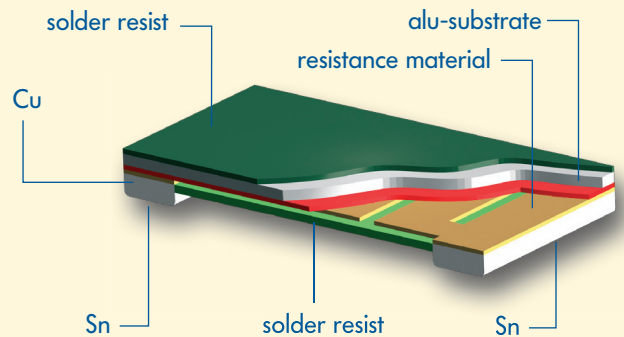


### gateway to the world of low resistance values

LMS (2512) LMP (2010) LMK (1206) LMI (0805)\*

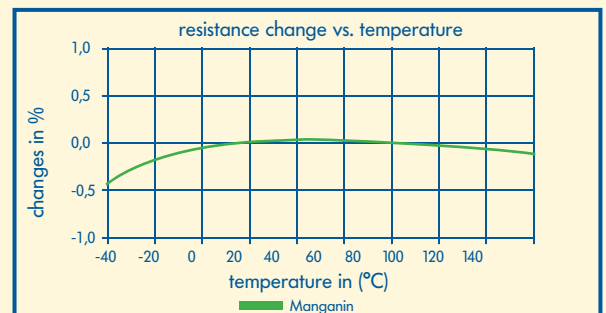
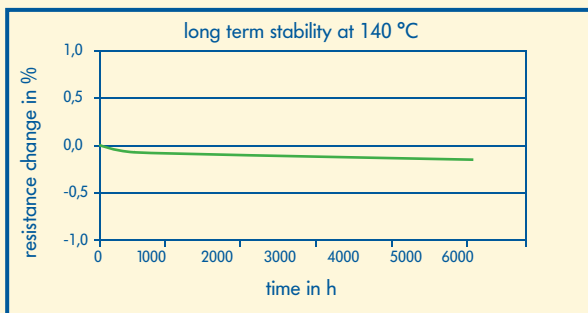
#### Why the new LMx product group?

- standard pad sizes
- high nominal and pulse power
- for a wide range of application
- cost efficient design
- extension of our well known SMD-product range (ISA-PLAN foil technology) to lowest values



#### Why Manganin<sup>®</sup> and Zeranin<sup>®</sup> as resistance material?

- negligible low thermal EMF versus copper, below 1  $\mu$  V/K (Seebeck- and Peltier-effect)
- good long term stability (less than 0.5 % under nominal power)
- nearly independent from ambient temperature in the application range of -40 up to +140 °C (low TCR-values)

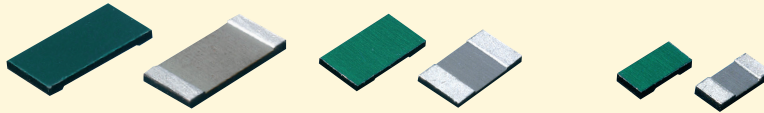


#### What kind of applications are the parts well suitable for?

- compact circuit design
- medium range of tolerances
- drive controls in the low and medium power range
- low-cost-electronic circuits in the automotive market
- filtering circuits

\* under development

#### Technical data:



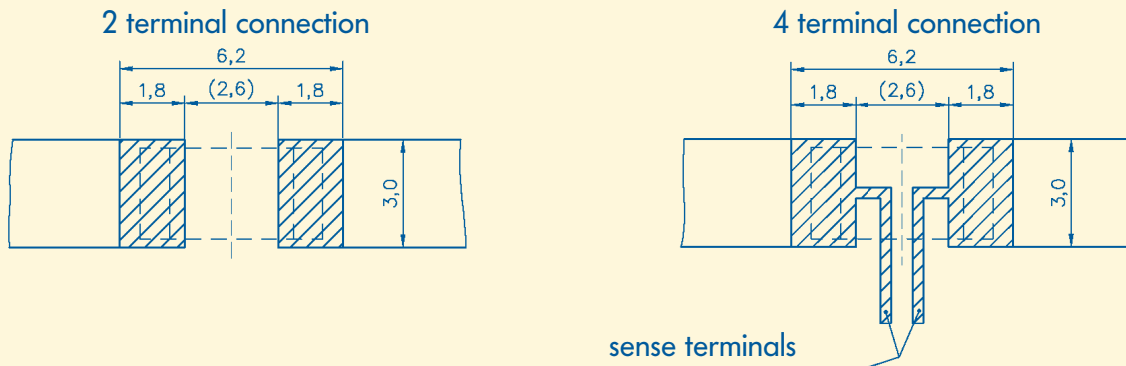
#### New size!

under development

type	LMS (2512)	LMP (2010)	LMK (1206)	LMI (0805)
power dissipation	2 Watt	1 Watt	0.5 Watt	0.25 Watt
tolerance	1* ,5 %	1* ,5 %	1* ,5 %	5 %
TCR (20°C up to 60°C)	< 50 ppm/K	< 50 ppm/K	< 50 ppm/K	< 50 ppm/K
continuous current (1mΩ)	44 A	31 A	22 A	15 A
pulse energy	up to 0.5 J	up to 0.3 J	up to 0.2 J	up to 0.1 J
Rthi	< 25 K/W	< 30 K/W	< 40 K/W	< 80 K/W
resistance range	1-100 mΩ	1-100 mΩ	1-100 mΩ	1-100 mΩ

\* under development

#### proposal for pcb-layout of size 2010



#### description

- simple construction
- flat compact size
- low-ohmic precision and power resistors
- extremely low inductance

#### special features

- tin plated terminals
- reflow or infrared soldering
- reduced internal heat resistance
- high nominal power
- high pulse power
- standard tape and reel

#### Please note!

For higher accuracy we recommend our products  
SMK, SMP, SMS, SMT, SMR, SMV, PBH, PBV

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## ISABELLENHÜTTE

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