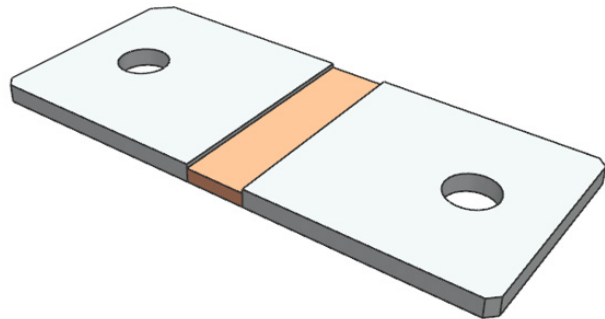


Wieland-Shunt

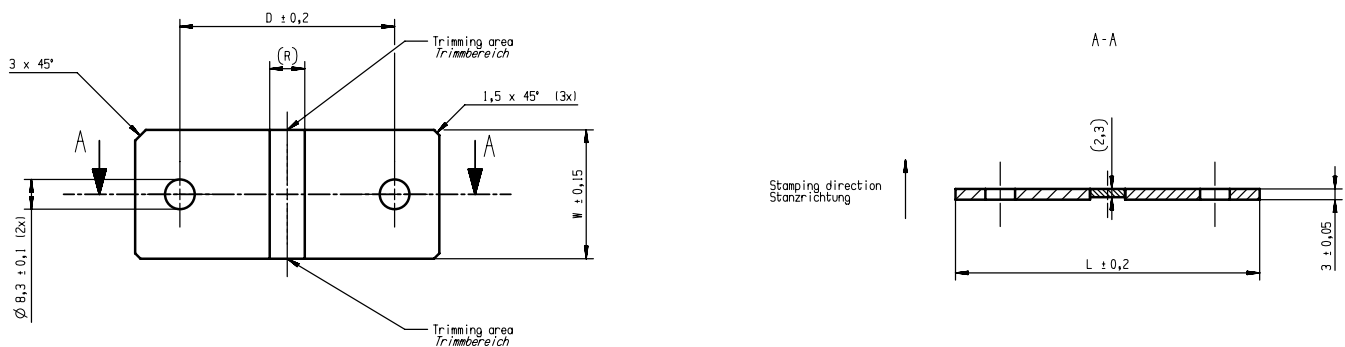
W8436 | W8536



Features

- E-Beam welded shunt
- Material combination Wieland-K14 and Wieland-FX7
- Nickel-Tinned contact material
- Up to 50 W permanent power
- AEC-Q200 and RoHS compliant
- Customized shunts and further dimensions available on request

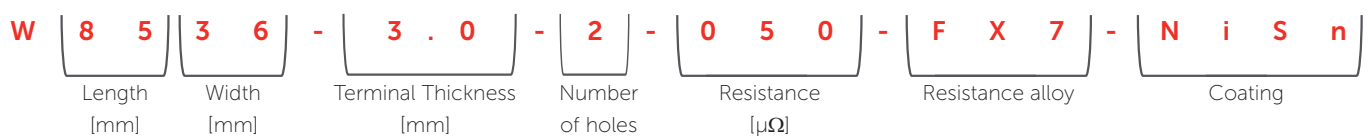
Dimensions [mm]



Available Sizes

Part No.	L-Length	W-Width	D-Distance between holes	R-Resistance material width
W8436	84	36	60	4.7 mm for 25 $\mu\Omega$
W8536	85	36	60	9.4 mm for 50 $\mu\Omega$

Request and Ordering Code



Example: Wieland-Shunt 85 x 36 x 3 mm with 2 holes, resistance 50 $\mu\Omega$, resistance alloy Wieland-FX7, Nickel-Tin coated terminals

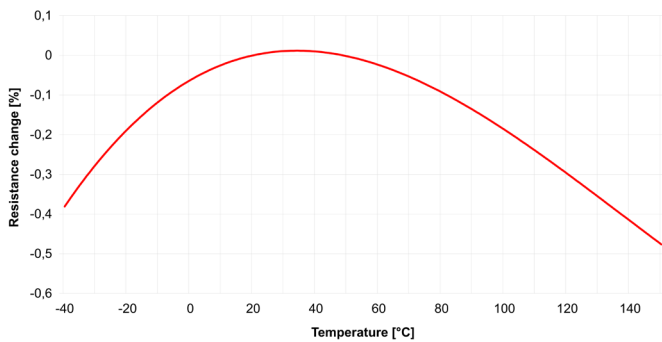
Wieland-Shunt

W8436 | W8536

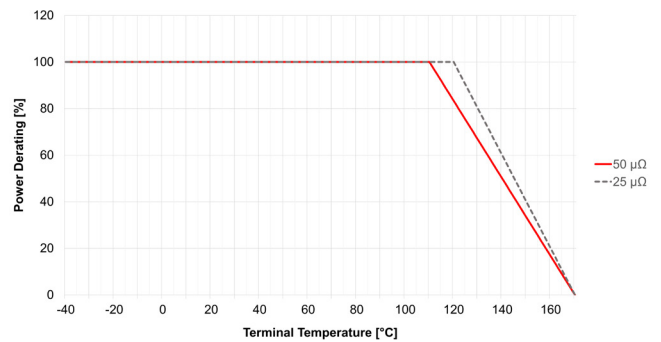
Electrical Characteristics

Nominal resistance [$\mu\Omega$]	25, 50
Resistance tolerance [%]	± 5
Power rating [W]	50
Operating temperature range [$^{\circ}\text{C}$]	-40 to +170
TCR of resistance material (20–60 $^{\circ}\text{C}$) [ppm/K]	< 50
Thermal EMF [$\mu\text{V}/\text{K}$]	< 0.8
Internal heat resistance [K/W]	1.0 (25 $\mu\Omega$) 1.2 (50 $\mu\Omega$)

TCR Curve of Wieland-FX7



Power Derating Curve



Environmental Characteristics

Test	Test Conditions	Limits
Thermal shock	-55 to +150 $^{\circ}\text{C}$ / 1000 cycles	± 0.5 %
Resistance to soldering heat	+260 $^{\circ}\text{C}$ / 10 sec.	± 0.25 %
High temperature exposure	+170 $^{\circ}\text{C}$ / 2000 h	± 1.0 %
Low temperature storage	-65 $^{\circ}\text{C}$ / 24 h	± 0.25 %
Biased humidity test	+85 $^{\circ}\text{C}$, 85 % RH, 10 % bias, 1000 h	± 0.25 %
Moisture resistance	10 days with cold shock, no load	± 0.25 %
Mechanical shock	100g, 6 milliseconds, 5 pulses	± 0.25 %
Vibration	10–2000 Hz in 1 minute, 3 directions, 12 h	± 0.25 %
Solderability	J-STD-002	95 % coverage
Short time overload	5 times rated power for 5 sec.	± 0.25 %
Operational life simulated	+125 $^{\circ}\text{C}$ / 1000 h (1.5 h „on“, 0.5 h „off“), Cond. D	± 1.0 %

Packaging Information

- Tray pack (32 shunts per tray)
- Sample quantities available on request

Wieland-Werke AG | Graf-Arco-Straße 36 | 89079 Ulm | Germany
 info@wieland.com | wieland.com

This printed matter is not subject to revision. No claims can be derived from it unless there is evidence of intent or gross negligence. The product characteristics are not guaranteed and do not replace our experts' advice.