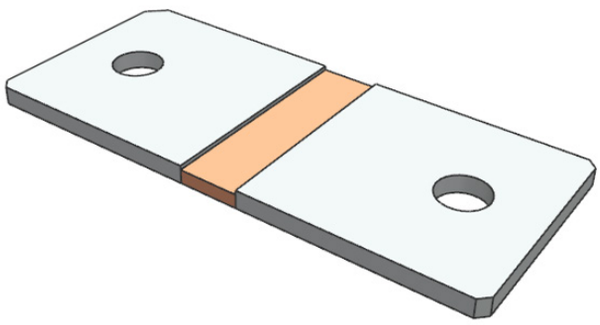
Wieland-Shunt

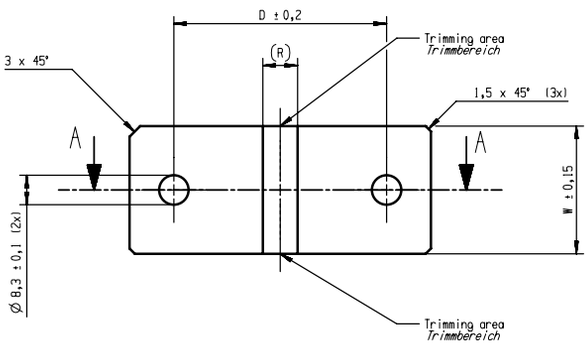
W8436 | W8536

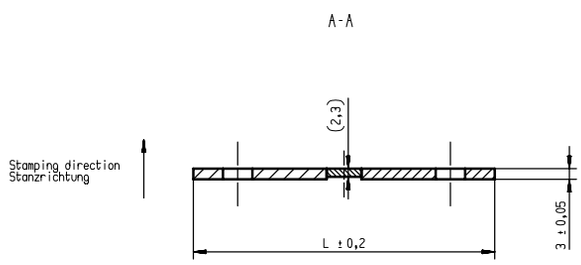


Features

- 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 µΩ
W8536	85	36	60	9.4 mm for 50 µΩ

Request and Ordering Code

W	8 5	3 6	-	3 . 0	-	2	-	0 5 0	-	F X 7	-	N i S n
	Length [mm]	Width [mm]		Terminal Thickness [mm]		Number of holes		Resistance [µΩ]		Resistance alloy		Coating

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

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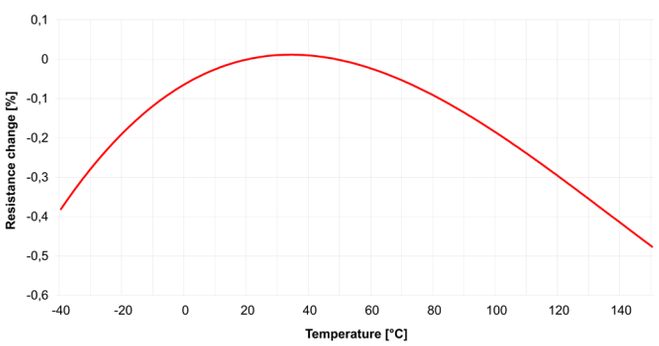
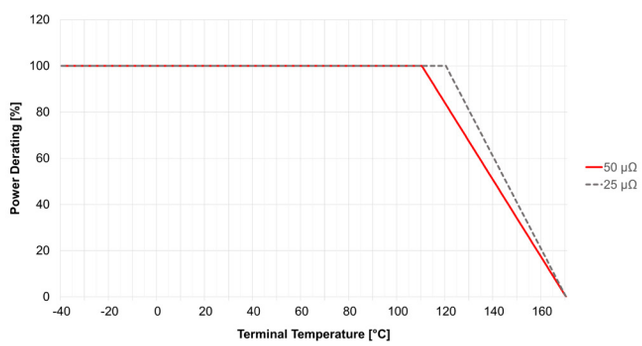
Electrical Characteristics	
Nominal resistance [µΩ]	25, 50
Resistance tolerance [%]	±5
Power rating [W]	50
Operating temperature range [°C]	–40 to +170
TCR of resistance material (20–60 °C) [ppm/K]	< 50
Thermal EMF [µV/K]	< 0.8
Internal heat resistance [K/W]	1.0 (25 µΩ) 1.2 (50 µΩ)

TCR Curve of Wieland-FX7



Power Derating Curve



Environmental Characteristics		
Test	**Test Conditions**	**Limits**
Thermal shock	–55 to +150 °C / 1000 cycles	±0.5 %
Resistance to soldering heat	+260 °C / 10 sec.	±0.25 %
High temperature exposure	+170 °C / 2000 h	±1.0 %
Low temperature storage	–65 °C / 24 h	±0.25 %
Biased humidity test	+85 °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 °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

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