

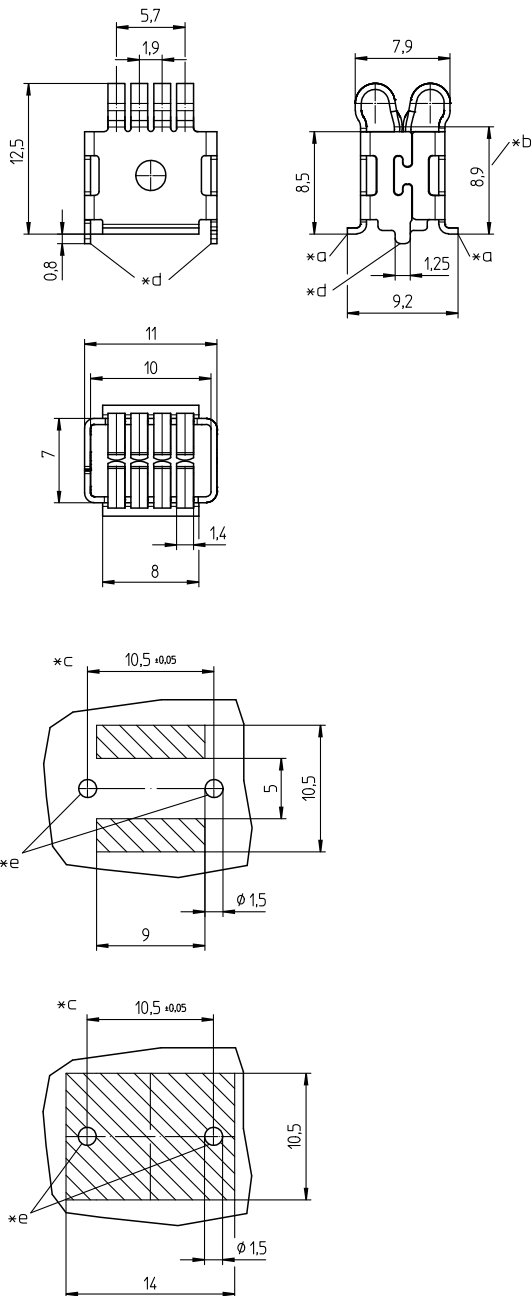
45 458001 04

High-current contact elements



High-current contact bush with positioning pegs, in surface mount technology (SMT), for tab contacts 1.0 mm, for printed circuit boards or busbars

45 458001 04



Environmental conditions

Temperature range -40 °C/+120 °C

Materials

Contact CuNiSi alloy, tin-plated

Mechanical data

Mating with tab contact 8.0 mm x 1.0 mm
applicable for reflow soldering on
printed circuit board
applicable for laser welding on a
busbar or lead frame

Mating cycles ≤ 5

Insertion force 30 N ± 10 N¹

Withdrawal force 10 N ± 5 N¹

¹ measured with a polished steel pin, nominal dimensions 8.0 x 1.0 mm

Electrical data (at T_{amb} 20 °C)

Contact resistance < 0.5 mΩ

Rated current 75 A
(up to 200 A)¹

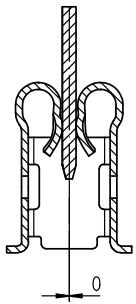
¹ depending on the connection to the printed circuit board/busbar, installation situation and heat dissipation

Associated products

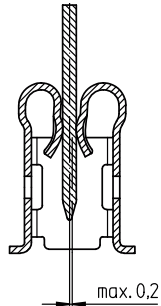
45

458001 04

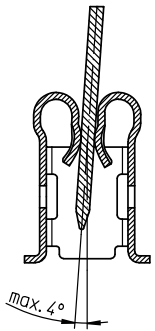
Assembly tolerances for top and bottom entry
- tab dimensions 8.0 mm x 1.0 mm



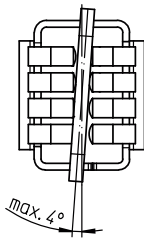
typical mating



permissible lateral offset



permissible tilt

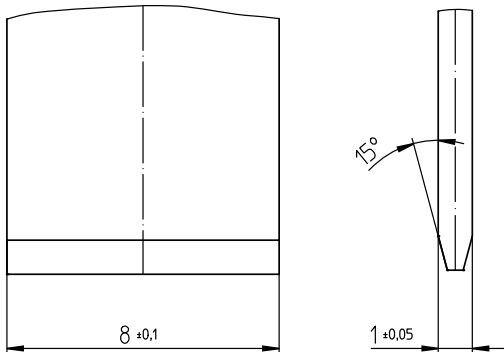


permissible twist

permissible combined tolerances
tilt max. 2°, twist max. 2°

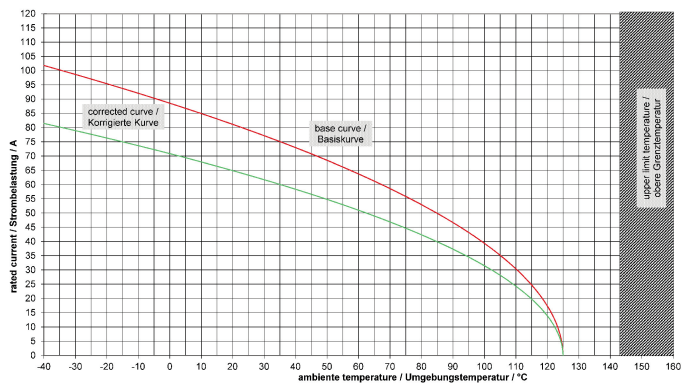
45 458001 04

Geometry of the mating tab contact



Material to be coordinated with Lumberg.

Derating diagram



Test setup: application example of a closed system, no air circulation, no heat dissipation

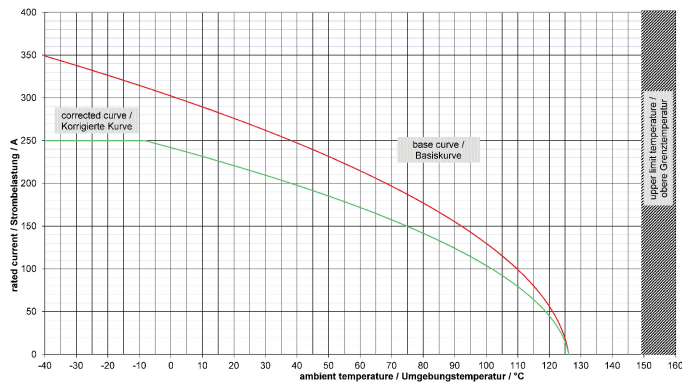
- tab contact: Cu-HCP, 8.0 mm x 1.0 mm
- connected wire: section 6 mm²
- ambient temperature: 20 °C

Further test configurations and details upon request.

45

458001 04

Derating diagram

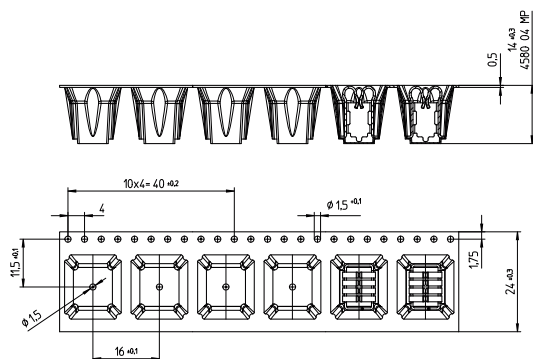
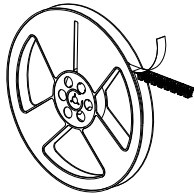


Test setup: application example of an open system, with air circulation and optimal heat dissipation

- tab contact: Cu-HCP, 8.0 mm x 1.0 mm
- 6 wires connected in parallel: section 5.27 mm² (sum 31.62 mm²)
- ambient temperature: 20 °C

Further test configurations and details upon request.

Packaging 458001 04 ...VP12
reel: 330 mm/110 mm/27.0 mm
leader: 400 mm, 25 empty cavities
trailer: 160 mm, 10 empty cavities



- *a positioning peg
- *b supporting surface for reflow soldering or laser welding
- *c height contact point
- *d mounting space on printed circuit board or lead frame
- *e bore hole for positioning peg

45

458001 04

Designation	Pole Number	PU (Pieces)	MDQ (Pieces)
458001 04 1,0 V11VP9	1	5000	10000
458001 04 1,0 V11VP12	1	300	2400

Packaging:

458001 04 ..VP9 in a cardboard box

458001 04 ..VP12 on reel