

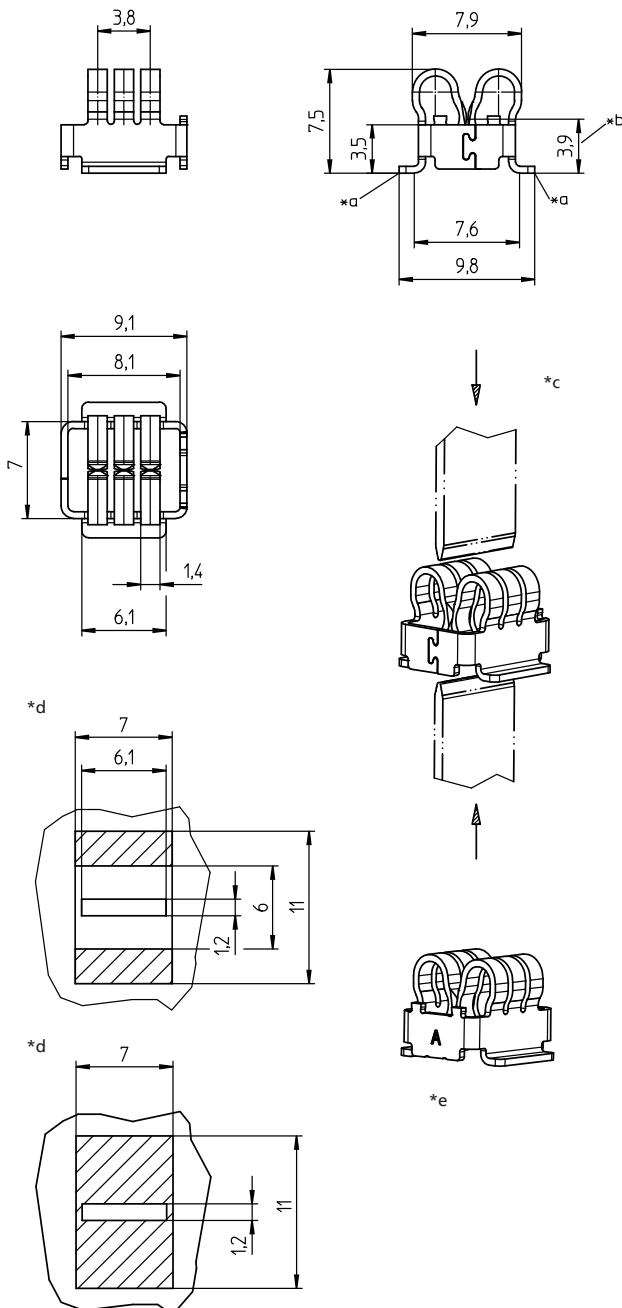
45 4580 03 OP

High-current contact elements



High-current contact bush, in surface mount technology (SMT), mateable from top or bottom direction, for tab contacts 0.8–2.0 mm, for printed circuit boards or busbars

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Environmental conditions

Temperature range -40 °C/+120 °C

Materials

Contact CuCr alloy, tin-plated

Mechanical data

Mating with tab contact 5.3–7.2 mm x 0.8–1.5 mm – 4580 03 OP T0,8
tab contact 5.3–7.2 mm x 1.5–2.0 mm – 4580 03 OP T2,0
applicable for reflow soldering on printed circuit board
applicable for laser welding on a busbar or lead frame

Mating cycles ≤ 5

Insertion force
tab contact 0.8 mm 22 N ± 10 N – top or bottom entry
tab contact 1.0 mm 22 N ± 10 N – top or bottom entry
tab contact 1.5 mm 35 N ± 10 N – top or bottom entry
tab contact 2.0 mm 35 N ± 10 N – top entry
50 N ± 10 N – bottom entry¹

Withdrawal force 6 N +10/-3 N¹

¹ measured with polished steel test tabs

Electrical data (at T_{amb} 20 °C)

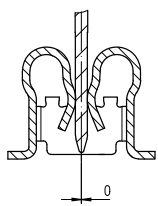
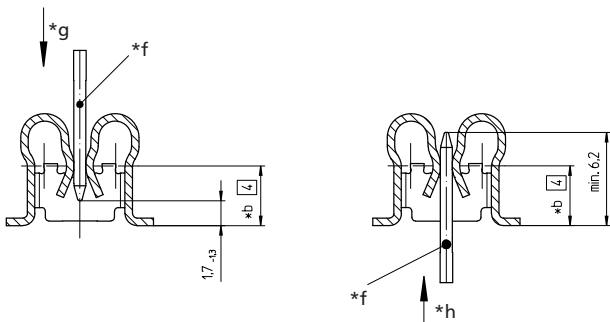
Contact resistance < 0.5 mΩ

Rated current ≤ 60 A¹

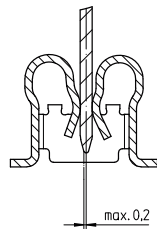
¹ depending on the connection to the printed circuit board/busbar, installation situation and heat dissipation

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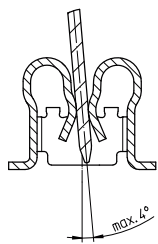
Assembly tolerances for top and bottom entry
 - tab dimensions 4.8 mm x 0.8 mm x length 8 mm
 - larger assembly tolerances possible for lengths > 15 mm



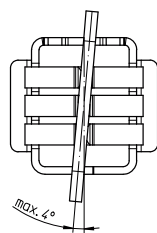
typical mating



permissible lateral offset



permissible tilt

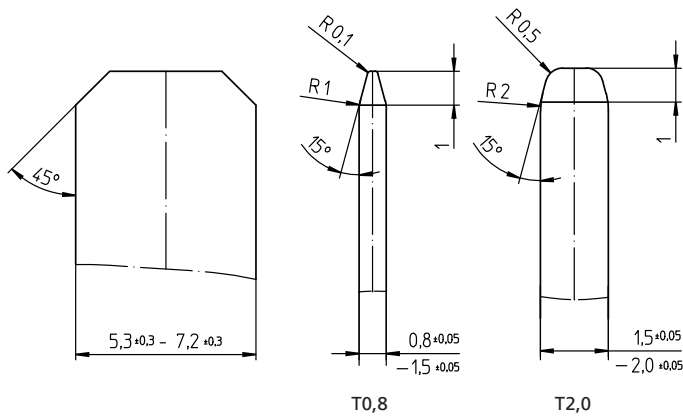


permissible twist

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

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Geometry of the mating tab contact



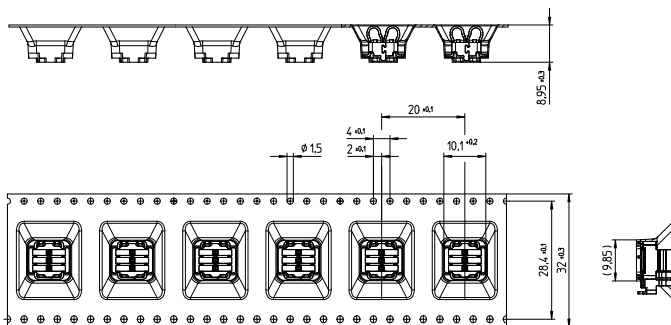
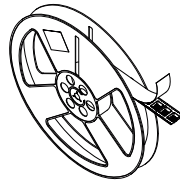
Material to be coordinated with Lumberg.

Packaging

reel: 330 mm/110 mm/32.5 mm

leader: 400 mm, 25 empty cavities

trailer: 160 mm, 10 empty cavities



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- *a supporting surface for soldering – dimensions per solder pad
min. 7.5 mm x 2.0 mm
 - *b height contact point
 - *c mateable from top or bottom direction
 - *d circuit board layout (example)
 - *e marking A for type 4580 03 OP T0,8
marking B for type 4580 03 OP T2,0
 - *f contact tab
 - *g mating from top direction
 - *h mating from bottom direction

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4580 03 OP

Designation	Pole Number	PU (Pieces)	MDQ (Pieces)
4580 03 OP T0,8V12VP12	1	350	2100
4580 03 OP T2,0V12VP12	1	350	2100

Packaging:
on reel