

pkg.	wt.	part no.
1800	0,25 g	46.101.1001.50

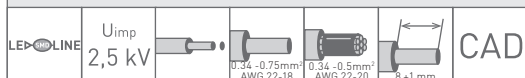
1 pole

Wires can be released by twisting and pulling the wire simultaneously.

Machine-compatible "tape-and-reel" packaging

Material: Housing: PPA, white
Clamping spring material: CrNi
Contact material: CuSn
Contact surface: hot-dip tinned 5-10 µm

Technical drawing of a stepped shaft. The drawing shows a shaft with two steps. The total length of the shaft is 35. The diameter of the first step is 6. The diameter of the second step is 2. The total width of the shaft is 14.



LED - Light and connection technology

SMD-Terminal block - Mini
General technical information**Connection data**

Connection technology	Push wire contacts
Solid wires	0.34 - 0.75 mm ² , AWG 22-18
Stranded, tinned wires	0.34 - 0.5 mm ² , AWG 22-20
Strip length	8 +1 mm
Conductor entry angle to the PCB	0 - 12°
Wire release function by	Twisting and Pulling

Pull-out force according to DN 60999-1

0.2 mm ²	min. 10 N
0.34 mm ²	min. 15 N
0.5 mm ²	min. 20 N
0.75 mm ²	min. 30 N
Insertion force	max. 10 N

Geometrical data

Pin spacing	4 mm / 0.16 inch
Width	3.9 mm / 0.15 inch
Height	4 mm / 0.16 inch
Depth	13.1 mm / 0.52 inch
Reel diameter of tape-and-reel packaging	330 mm (13")
Reel width	24 mm
Pitch distance	8 mm
Packaging unit tape-and-reel	1.500 / 1.800
Packaging unit cardboard	21.600 / 23.400 (13 reels)

Material data

Insulating material group	I
Insulating material	PPA, white
PTI	600
Flammability class, based on UL 94	V0
Clamping spring material	CrNi
Contact material	CuSn
Contact surface	hot-dipped tinned 5-10 µm

Mechanical data

Mounting position	PCB top side
Mounting type	Lead-free reflow soldering

Temperature data

Marginal temperatures	-40 °C to + 150 °C
Ambient temperature	-40 °C to + 105 °C
T-classification according to IEC 60998-1 para. 12	-

Rated data according to IEC / EN 60947-7-4 (IEC/EN 60664-1)

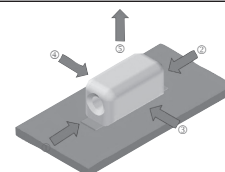
Rated voltage (III / 3)	63 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	160 V
Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	320 V
Rated impulse voltage (II / 2)	2.5 kV
Rated current	9 A

Rated data according to UL 1977

Rated voltage UL 1977	300 V
Rated current UL 1977	9 A

Country specific certificates

VDE ENEC	EN 60947
UL	cURus, File No. E-365006

Shear forces according to DIN 62137-1-2 in [N]

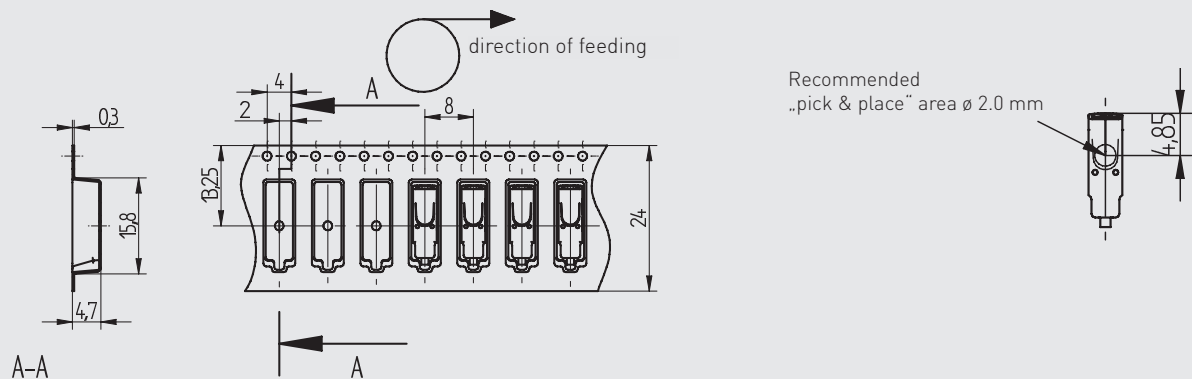
Direction 1 + 2 shear force along	>50
Direction 3 + 4 shear force across	>20
Direction 5 pull-off force	>20

SMD-Terminal block - Mini
Instructions for processing

Instructions for soldering process

Suitable for leadfree-reflow-profiles according to DIN EN 61760-1 respective DIN EN 60068-2-58 up to peak-temperature of max. 260°C. Due to different application-specific parameters (component arrangement and alignment, soldering system, solder paste), it is recommended to use test runs to determine a suitable profile under production conditions.

Depending on the SMD soldering process and associated parameters a minor discoloration might occur. However, this will not influence the functionality.



Storage time	Solderability up to 6 months when stored between -5°C and +40°C and rel. humidity between 10...60% r. H. After a storage time of 6 months, solderability has to be checked according to J-STD-002D or DIN EN 60068-2-58:2016.
max. allowed number of reflow-processes	3
Reflow-profile	<p>Reflow-profile (lead-free)</p>
Solderability	Solderability of components is checked by wetting test according to J-STD-002D
Assembly method	SMD, according to drawing
Recommended solder stencil thickness	100 - 150 µm (recommendation BJB 150)