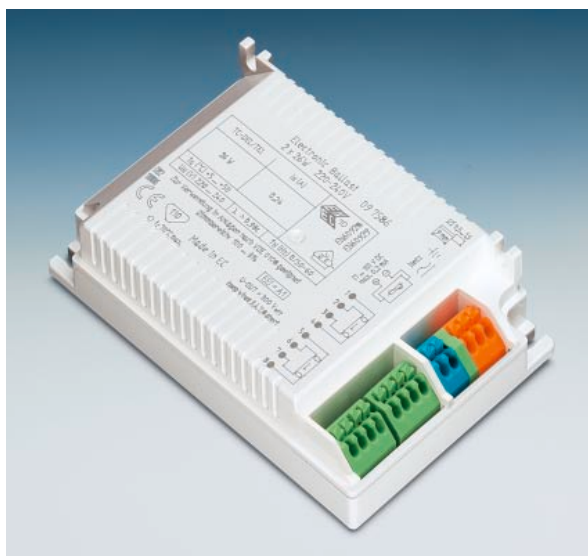


## COMBICON compact; Spring-Cage PCB Termination Blocks PTSA 0,5/... with a 2.5 mm Pitch PTSA 1,5/... with a 3.5 mm Pitch

The PTSA spring-cage PCB terminal block range is characterized by an easy-to-operate angled spring-cage connection.

It clamps solid and stranded conductors up to 0.5 or 1.5 mm<sup>2</sup> with the pitches 2.5 and 3.5 mm. Due to the small pitches and the compact outer dimensions, this range is particularly suitable for applications in which space is critical. Typical applications include in particular lighting engineering and telecommunications. The PTSA range can be supplied as a termination block either with solder pins arranged in a row at the front, or with offset solder pins

Z pinning serves to increase the voltage values up to 400 V or 630 V. Pitch spacers and different color versions make it easy to put together customized termination blocks. It is possible to intermix the pitches. Individual labeling of these products is possible.



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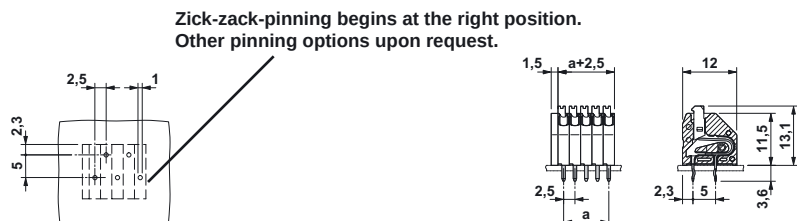
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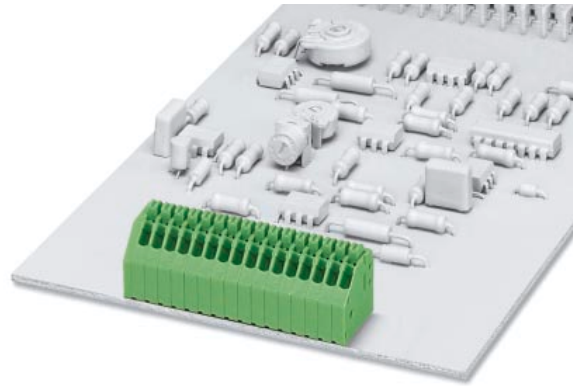
# PCB Termination Blocks PTSA 0,5/...-2,5-Z 2.5 mm Pitch



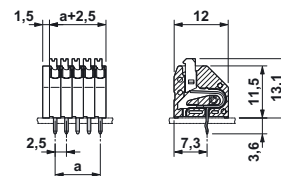
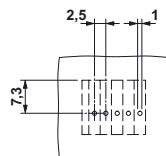
| Description                                                            | No. of pos. | Dim.<br>a<br>[mm]                       | Type                             | Order No.  | Pcs./Pkt. |
|------------------------------------------------------------------------|-------------|-----------------------------------------|----------------------------------|------------|-----------|
| <b>PCB termination blocks, offset pins, 2.5 mm pitch, color: green</b> |             |                                         |                                  |            |           |
|                                                                        | 2           | 2.5                                     | PTSA 0,5/2-2,5-Z                 | 19 90 00 9 | 250       |
|                                                                        | 3           | 5                                       | PTSA 0,5/3-2,5-Z                 | 19 90 01 2 | 250       |
|                                                                        | 4           | 7.5                                     | PTSA 0,5/4-2,5-Z                 | 19 90 02 5 | 250       |
|                                                                        | 5           | 10                                      | PTSA 0,5/5-2,5-Z                 | 19 90 03 8 | 100       |
|                                                                        | 6           | 12.5                                    | PTSA 0,5/6-2,5-Z                 | 19 90 04 1 | 100       |
|                                                                        | 7           | 15                                      | PTSA 0,5/7-2,5-Z                 | 19 90 05 4 | 100       |
|                                                                        | 8           | 17.5                                    | PTSA 0,5/8-2,5-Z                 | 19 90 06 7 | 100       |
|                                                                        | 9           | 20                                      | PTSA 0,5/9-2,5-Z                 | 19 90 07 0 | 100       |
|                                                                        | 10          | 22.5                                    | PTSA 0,5/10-2,5-Z                | 19 90 08 3 | 100       |
|                                                                        | 11          | 25                                      | PTSA 0,5/11-2,5-Z                | 19 90 09 6 | 50        |
|                                                                        | 12          | 27.5                                    | PTSA 0,5/12-2,5-Z                | 19 90 10 6 | 50        |
|                                                                        | 13          | 30                                      | PTSA 0,5/13-2,5-Z                | 19 90 11 9 | 50        |
|                                                                        | 14          | 32.5                                    | PTSA 0,5/14-2,5-Z                | 19 90 12 2 | 50        |
|                                                                        | 15          | 35                                      | PTSA 0,5/15-2,5-Z                | 19 90 13 5 | 50        |
|                                                                        | 16          | 37.5                                    | PTSA 0,5/16-2,5-Z                | 19 90 14 8 | 50        |
|                                                                        | 17          | 40                                      | PTSA 0,5/17-2,5-Z                | 19 90 15 1 | 50        |
|                                                                        | 18          | 42.5                                    | PTSA 0,5/18-2,5-Z                | 19 90 16 4 | 50        |
|                                                                        | 19          | 45                                      | PTSA 0,5/19-2,5-Z                | 19 90 17 7 | 50        |
|                                                                        | 20          | 47.5                                    | PTSA 0,5/20-2,5-Z                | 19 90 18 0 | 50        |
|                                                                        | 21          | 50                                      | PTSA 0,5/21-2,5-Z                | 19 90 19 3 | 50        |
|                                                                        | 22          | 52.5                                    | PTSA 0,5/22-2,5-Z                | 19 90 20 3 | 50        |
|                                                                        | 23          | 55                                      | PTSA 0,5/23-2,5-Z                | 19 90 22 9 | 50        |
|                                                                        | 24          | 57.5                                    | PTSA 0,5/24-2,5-Z                | 19 90 23 2 | 50        |
| <b>Technical data</b>                                                  |             |                                         |                                  |            |           |
| Dimensions                                                             |             |                                         | see description                  |            |           |
| Pitch                                                                  |             | [mm]                                    | 2.5                              |            |           |
| Hole diameter                                                          |             | [mm]                                    | 1                                |            |           |
| Pin dimensions                                                         |             | [mm]x[mm]                               | 0.4 x 0.75                       |            |           |
| <b>Technical data in accordance with IEC/ DIN VDE</b>                  |             |                                         |                                  |            |           |
| Insulating material group                                              |             | —                                       | I                                |            |           |
| Surge voltage category / contamination class                           |             | —/—                                     | III / 3                          | III / 2    | II / 2    |
| Rated voltage                                                          |             | [V]                                     | 160                              | 250        | 400       |
| Rated surge voltage                                                    |             | [kV]                                    | 2.5                              | 2.5        | 2.5       |
| Nominal current / cross section                                        |             | [A]/[mm²]                               | 2 / 0.5                          |            |           |
| Maximum load current / cross section                                   |             | [A]/[mm²]                               | 2 / 0.5                          |            |           |
| <b>Connection capacity</b>                                             |             |                                         |                                  |            |           |
| Solid / stranded / conductor sizes                                     |             | [mm²]/[mm²]/AWG                         | 0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 |            |           |
| Stranded with ferrule without / with plastic sleeve                    |             | [mm²]                                   | —                                |            |           |
| <b>Stripping length</b>                                                |             | [mm]                                    | 8                                |            |           |
| <b>Insulating material</b>                                             |             |                                         |                                  |            |           |
| Inflammability class in acc. with UL 94                                |             |                                         | PA                               |            |           |
|                                                                        |             |                                         | V0                               |            |           |
| <b>Approval data (UL/CUL and CSA)</b>                                  |             |                                         |                                  |            |           |
| Nominal voltage / current / conductor sizes                            |             | UL/CUL: [V]/[A]/AWG<br>CSA: [V]/[A]/AWG | —                                |            |           |
|                                                                        |             |                                         | —                                |            |           |



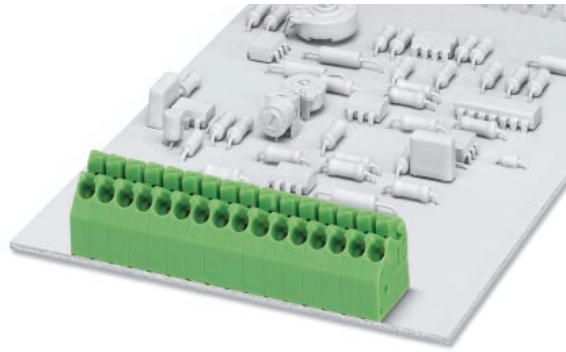
# PCB Termination Blocks PTSA 0,5/...-2,5-F 2.5 mm Pitch



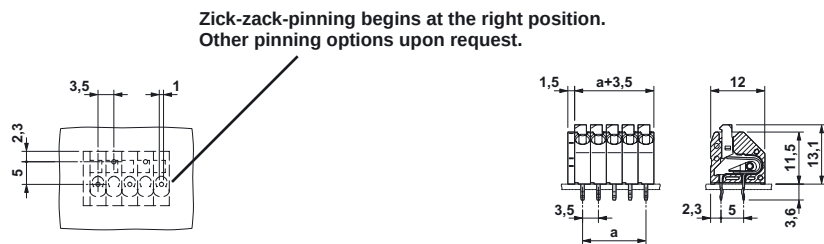
| Description                                                                      | No. of pos. | Dim.<br>a<br>[mm]                       | Type                             | Order No.  | Pcs./Pkt. |
|----------------------------------------------------------------------------------|-------------|-----------------------------------------|----------------------------------|------------|-----------|
| <b>PCB termination blocks, pins at the front,<br/>2.5 mm pitch, color: green</b> |             |                                         |                                  |            |           |
|                                                                                  | 2           | 2.5                                     | PTSA 0,5/2-2,5-F                 | 19 89 74 8 | 250       |
|                                                                                  | 3           | 5                                       | PTSA 0,5/3-2,5-F                 | 19 89 75 1 | 250       |
|                                                                                  | 4           | 7.5                                     | PTSA 0,5/4-2,5-F                 | 19 89 76 4 | 250       |
|                                                                                  | 5           | 10                                      | PTSA 0,5/5-2,5-F                 | 19 89 77 7 | 100       |
|                                                                                  | 6           | 12.5                                    | PTSA 0,5/6-2,5-F                 | 19 89 78 0 | 100       |
|                                                                                  | 7           | 15                                      | PTSA 0,5/7-2,5-F                 | 19 89 79 3 | 100       |
|                                                                                  | 8           | 17.5                                    | PTSA 0,5/8-2,5-F                 | 19 89 80 3 | 100       |
|                                                                                  | 9           | 20                                      | PTSA 0,5/9-2,5-F                 | 19 89 81 6 | 100       |
|                                                                                  | 10          | 22.5                                    | PTSA 0,5/10-2,5-F                | 19 89 82 9 | 100       |
|                                                                                  | 11          | 25                                      | PTSA 0,5/11-2,5-F                | 19 89 83 2 | 50        |
|                                                                                  | 12          | 27.5                                    | PTSA 0,5/12-2,5-F                | 19 89 84 5 | 50        |
|                                                                                  | 13          | 30                                      | PTSA 0,5/13-2,5-F                | 19 89 85 8 | 50        |
|                                                                                  | 14          | 32.5                                    | PTSA 0,5/14-2,5-F                | 19 89 86 1 | 50        |
|                                                                                  | 15          | 35                                      | PTSA 0,5/15-2,5-F                | 19 89 87 4 | 50        |
|                                                                                  | 16          | 37.5                                    | PTSA 0,5/16-2,5-F                | 19 89 88 7 | 50        |
|                                                                                  | 17          | 40                                      | PTSA 0,5/17-2,5-F                | 19 89 89 0 | 50        |
|                                                                                  | 18          | 42.5                                    | PTSA 0,5/18-2,5-F                | 19 89 90 0 | 50        |
|                                                                                  | 19          | 45                                      | PTSA 0,5/19-2,5-F                | 19 89 91 3 | 50        |
|                                                                                  | 20          | 47.5                                    | PTSA 0,5/20-2,5-F                | 19 89 92 6 | 50        |
|                                                                                  | 21          | 50                                      | PTSA 0,5/21-2,5-F                | 19 89 93 9 | 50        |
|                                                                                  | 22          | 52.5                                    | PTSA 0,5/22-2,5-F                | 19 89 94 2 | 50        |
|                                                                                  | 23          | 55                                      | PTSA 0,5/23-2,5-F                | 19 89 95 5 | 50        |
|                                                                                  | 24          | 57.5                                    | PTSA 0,5/24-2,5-F                | 19 89 99 7 | 50        |
| <b>Technical data</b>                                                            |             |                                         |                                  |            |           |
| Dimensions                                                                       |             |                                         |                                  |            |           |
| Pitch                                                                            |             | [mm]                                    | see description                  |            |           |
| Hole diameter                                                                    |             | [mm]                                    | 2.5                              |            |           |
| Pin dimensions                                                                   |             | [mm]x[mm]                               | 1                                |            |           |
|                                                                                  |             |                                         | 0.4 x 0.75                       |            |           |
| <b>Technical data in accordance with IEC/ DIN VDE</b>                            |             |                                         |                                  |            |           |
| Insulating material group                                                        |             | —                                       | I                                |            |           |
| Surge voltage category / contamination class                                     |             | —/—                                     | III / 3                          | III / 2    | II / 2    |
| Rated voltage                                                                    |             | [V]                                     | 63                               | 250        | 250       |
| Rated surge voltage                                                              |             | [kV]                                    | 2.5                              | 2.5        | 2.5       |
| Nominal current / cross section                                                  |             | [A]/[mm²]                               | 2 / 0.5                          |            |           |
| Maximum load current / cross section                                             |             | [A]/[mm²]                               | 2 / 0.5                          |            |           |
| <b>Connection capacity</b>                                                       |             |                                         |                                  |            |           |
| Solid / stranded / conductor sizes                                               |             | [mm²]/[mm²]/AWG                         | 0.14 - 0.5 / 0.2 - 0.5 / 24 - 20 |            |           |
| Stranded with ferrule without / with plastic sleeve                              |             | [mm²]                                   | —                                |            |           |
| <b>Stripping length</b>                                                          |             |                                         |                                  |            |           |
|                                                                                  |             | [mm]                                    | 8                                |            |           |
| <b>Insulating material</b>                                                       |             |                                         |                                  |            |           |
|                                                                                  |             |                                         | PA                               |            |           |
|                                                                                  |             |                                         | V0                               |            |           |
| <b>Approval data (UL/CUL and CSA)</b>                                            |             |                                         |                                  |            |           |
| Nominal voltage / current / conductor sizes                                      |             | UL/CUL: [V]/[A]/AWG<br>CSA: [V]/[A]/AWG | —                                |            |           |
|                                                                                  |             |                                         | —                                |            |           |



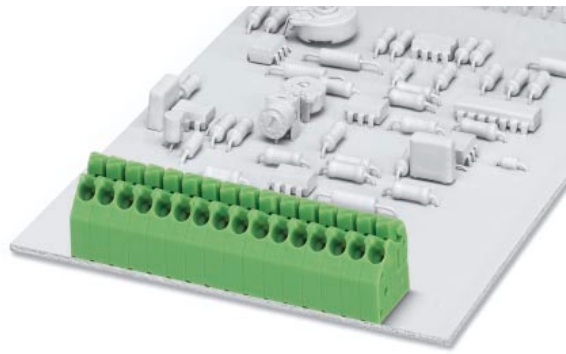
# PCB Termination Blocks PTSA 1,5/...-3,5-Z 3.5 mm Pitch



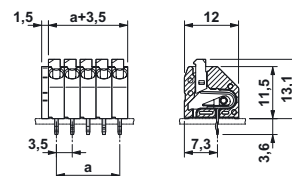
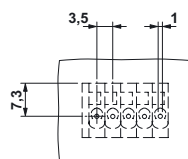
| Description                                                            | No. of pos. | Dim.<br>a<br>[mm]                       | Type                            | Order No.  | Pcs./Pkt. |
|------------------------------------------------------------------------|-------------|-----------------------------------------|---------------------------------|------------|-----------|
| <b>PCB termination blocks, offset pins, 3.5 mm pitch, color: green</b> |             |                                         |                                 |            |           |
|                                                                        | 2           | 3.5                                     | PTSA 1,5/2-3,5-Z                | 19 85 19 5 | 250       |
|                                                                        | 3           | 7                                       | PTSA 1,5/3-3,5-Z                | 19 85 20 5 | 250       |
|                                                                        | 4           | 10.5                                    | PTSA 1,5/4-3,5-Z                | 19 85 21 8 | 250       |
|                                                                        | 5           | 14                                      | PTSA 1,5/5-3,5-Z                | 19 85 22 1 | 100       |
|                                                                        | 6           | 17.5                                    | PTSA 1,5/6-3,5-Z                | 19 85 23 4 | 100       |
|                                                                        | 7           | 21                                      | PTSA 1,5/7-3,5-Z                | 19 85 24 7 | 100       |
|                                                                        | 8           | 24.5                                    | PTSA 1,5/8-3,5-Z                | 19 85 25 0 | 100       |
|                                                                        | 9           | 28                                      | PTSA 1,5/9-3,5-Z                | 19 85 26 3 | 100       |
|                                                                        | 10          | 31.5                                    | PTSA 1,5/10-3,5-Z               | 19 85 27 6 | 100       |
|                                                                        | 11          | 35                                      | PTSA 1,5/11-3,5-Z               | 19 85 28 9 | 50        |
|                                                                        | 12          | 38.5                                    | PTSA 1,5/12-3,5-Z               | 19 85 29 2 | 50        |
|                                                                        | 13          | 42                                      | PTSA 1,5/13-3,5-Z               | 19 85 30 2 | 50        |
|                                                                        | 14          | 45.5                                    | PTSA 1,5/14-3,5-Z               | 19 85 31 5 | 50        |
|                                                                        | 15          | 49                                      | PTSA 1,5/15-3,5-Z               | 19 85 32 8 | 50        |
|                                                                        | 16          | 52.5                                    | PTSA 1,5/16-3,5-Z               | 19 85 33 1 | 50        |
|                                                                        | 17          | 56                                      | PTSA 1,5/17-3,5-Z               | 19 85 34 4 | 50        |
|                                                                        | 18          | 59.5                                    | PTSA 1,5/18-3,5-Z               | 19 85 35 7 | 50        |
|                                                                        | 19          | 63                                      | PTSA 1,5/19-3,5-Z               | 19 85 36 0 | 50        |
|                                                                        | 20          | 66.5                                    | PTSA 1,5/20-3,5-Z               | 19 85 37 3 | 50        |
|                                                                        | 21          | 70                                      | PTSA 1,5/21-3,5-Z               | 19 85 38 6 | 50        |
|                                                                        | 22          | 73.5                                    | PTSA 1,5/22-3,5-Z               | 19 85 39 9 | 50        |
|                                                                        | 23          | 77                                      | PTSA 1,5/23-3,5-Z               | 19 85 40 9 | 50        |
|                                                                        | 24          | 80.5                                    | PTSA 1,5/24-3,5-Z               | 19 85 41 2 | 50        |
| <b>Technical data</b>                                                  |             |                                         |                                 |            |           |
| Dimensions                                                             |             |                                         |                                 |            |           |
| Pitch                                                                  |             | [mm]                                    | see description                 |            |           |
| Hole diameter                                                          |             | [mm]                                    | 3.5                             |            |           |
| Pin dimensions                                                         |             | [mm]x[mm]                               | 1                               |            |           |
| 0.4 x 0.75                                                             |             |                                         |                                 |            |           |
| <b>Technical data in accordance with IEC/ DIN VDE</b>                  |             |                                         |                                 |            |           |
| Insulating material group                                              |             | —                                       | I                               |            |           |
| Surge voltage category / contamination class                           |             | —/—                                     | III / 3                         | III / 2    | II / 2    |
| Rated voltage                                                          |             | [V]                                     | 250                             | 400        | 630       |
| Rated surge voltage                                                    |             | [kV]                                    | 4                               | 4          | 4         |
| Nominal current / cross section                                        |             | [A]/[mm²]                               | 2 / 1.5                         |            |           |
| Maximum load current / cross section                                   |             | [A]/[mm²]                               | 2 / 1.5                         |            |           |
| <b>Connection capacity</b>                                             |             |                                         |                                 |            |           |
| Solid / stranded / conductor sizes                                     |             | [mm²]/[mm²]/AWG                         | 0.5 - 1.5 / 0.5 - 1.5 / 20 - 16 |            |           |
| Stranded with ferrule without / with plastic sleeve                    |             | [mm²]                                   | 0.5 - 1.0 / 0.5                 |            |           |
| <b>Stripping length</b>                                                |             |                                         |                                 |            |           |
|                                                                        |             | [mm]                                    | 8                               |            |           |
| <b>Insulating material</b>                                             |             |                                         |                                 |            |           |
| Inflammability class in acc. with UL 94                                |             |                                         | PA                              |            |           |
| V2                                                                     |             |                                         |                                 |            |           |
| <b>Approval data (UL/CUL and CSA)</b>                                  |             |                                         |                                 |            |           |
| Nominal voltage / current / conductor sizes                            |             | UL/CUL: [V]/[A]/AWG<br>CSA: [V]/[A]/AWG | 300 / 2 / 24 - 16               |            |           |



# PCB Termination Blocks PTSA 1,5/...-3,5-F 3.5 mm Pitch



| Description                                                                  | No. of pos. | Dim.<br>a<br>[mm]                       | Type                            | Order No.  | Pcs./Pkt. |
|------------------------------------------------------------------------------|-------------|-----------------------------------------|---------------------------------|------------|-----------|
| <b>PCB termination blocks, pins at the front, 3.5 mm pitch, color: green</b> |             |                                         |                                 |            |           |
|                                                                              | 2           | 3.5                                     | PTSA 1,5/2-3,5-F                | 19 84 96 3 | 250       |
|                                                                              | 3           | 7                                       | PTSA 1,5/3-3,5-F                | 19 94 97 6 | 250       |
|                                                                              | 4           | 10.5                                    | PTSA 1,5/4-3,5-F                | 19 84 98 9 | 250       |
|                                                                              | 5           | 14                                      | PTSA 1,5/5-3,5-F                | 19 84 99 2 | 100       |
|                                                                              | 6           | 17.5                                    | PTSA 1,5/6-3,5-F                | 19 85 00 1 | 100       |
|                                                                              | 7           | 21                                      | PTSA 1,5/7-3,5-F                | 19 85 01 4 | 100       |
|                                                                              | 8           | 24.5                                    | PTSA 1,5/8-3,5-F                | 19 85 02 7 | 100       |
|                                                                              | 9           | 28                                      | PTSA 1,5/9-3,5-F                | 19 85 03 0 | 100       |
|                                                                              | 10          | 31.5                                    | PTSA 1,5/10-3,5-F               | 19 85 04 3 | 100       |
|                                                                              | 11          | 35                                      | PTSA 1,5/11-3,5-F               | 19 85 05 6 | 50        |
|                                                                              | 12          | 38.5                                    | PTSA 1,5/12-3,5-F               | 19 85 06 9 | 50        |
|                                                                              | 13          | 42                                      | PTSA 1,5/13-3,5-F               | 19 85 07 2 | 50        |
|                                                                              | 14          | 45.5                                    | PTSA 1,5/14-3,5-F               | 19 85 08 5 | 50        |
|                                                                              | 15          | 49                                      | PTSA 1,5/15-3,5-F               | 19 85 09 8 | 50        |
|                                                                              | 16          | 52.5                                    | PTSA 1,5/16-3,5-F               | 19 85 10 8 | 50        |
|                                                                              | 17          | 56                                      | PTSA 1,5/17-3,5-F               | 19 85 11 1 | 50        |
|                                                                              | 18          | 59.5                                    | PTSA 1,5/18-3,5-F               | 19 85 12 4 | 50        |
|                                                                              | 19          | 63                                      | PTSA 1,5/19-3,5-F               | 19 85 13 7 | 50        |
|                                                                              | 20          | 66.5                                    | PTSA 1,5/20-3,5-F               | 19 85 14 0 | 50        |
|                                                                              | 21          | 70                                      | PTSA 1,5/21-3,5-F               | 19 85 15 3 | 50        |
|                                                                              | 22          | 73.5                                    | PTSA 1,5/22-3,5-F               | 19 85 16 6 | 50        |
|                                                                              | 23          | 77                                      | PTSA 1,5/23-3,5-F               | 19 85 17 9 | 50        |
|                                                                              | 24          | 80.5                                    | PTSA 1,5/24-3,5-F               | 19 85 18 2 | 50        |
| <b>Technical data</b>                                                        |             |                                         |                                 |            |           |
| Dimensions                                                                   |             |                                         |                                 |            |           |
| Pitch                                                                        |             | [mm]                                    | see description                 |            |           |
| Hole diameter                                                                |             | [mm]                                    | 3.5                             |            |           |
| Pin dimensions                                                               |             | [mm]x[mm]                               | 1                               |            |           |
|                                                                              |             |                                         | 0.4 x 0.75                      |            |           |
| <b>Technical data in accordance with IEC/ DIN VDE</b>                        |             |                                         |                                 |            |           |
| Insulating material group                                                    |             | —                                       | I                               |            |           |
| Surge voltage category / contamination class                                 |             | —/—                                     | III / 3                         | III / 2    | II / 2    |
| Rated voltage                                                                |             | [V]                                     | 200                             | 200        | 400       |
| Rated surge voltage                                                          |             | [kV]                                    | 4                               | 4          | 4         |
| Nominal current / cross section                                              |             | [A]/[mm²]                               | 2 / 1.5                         |            |           |
| Maximum load current / cross section                                         |             | [A]/[mm²]                               | 2 / 1.5                         |            |           |
| <b>Connection capacity</b>                                                   |             |                                         |                                 |            |           |
| Solid / stranded / conductor sizes                                           |             | [mm²]/[mm²]/AWG                         | 0.5 - 1.5 / 0.5 - 1.5 / 20 - 16 |            |           |
| Stranded with ferrule without / with plastic sleeve                          |             | [mm²]                                   | 0.5 - 1.0 / 0.5                 |            |           |
| <b>Stripping length</b>                                                      |             |                                         | 8                               |            |           |
| <b>Insulating material</b>                                                   |             |                                         | PA                              |            |           |
| Inflammability class in acc. with UL 94                                      |             |                                         | V2                              |            |           |
| <b>Approval data (UL/CUL and CSA)</b>                                        |             |                                         |                                 |            |           |
| Nominal voltage / current / conductor sizes                                  |             | UL/CUL: [V]/[A]/AWG<br>CSA: [V]/[A]/AWG | 300 / 2 / 24 - 16               |            |           |
|                                                                              |             |                                         | —                               |            |           |



## Данный компонент на территории Российской Федерации

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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