



Pushing Performance  
Since 1945

# SEK-19 SV HT MA STD ANG29 20P PL2 CLIP

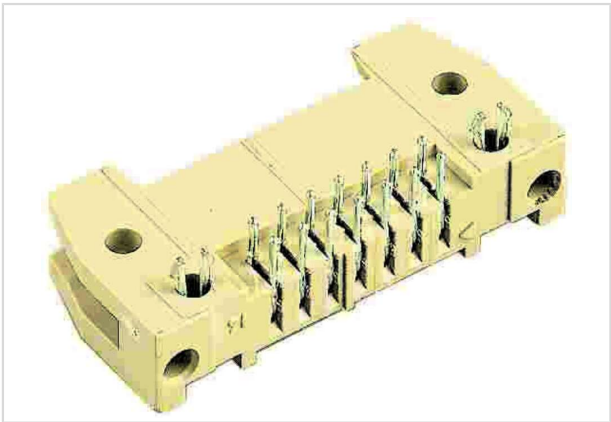


Image is for illustration purposes only. Please refer to product description.

|               |                                        |
|---------------|----------------------------------------|
| Part number   | 09 19 520 6973                         |
| Specification | SEK-19 SV HT MA STD ANG29 20P PL2 CLIP |

## Identification

|                            |                |
|----------------------------|----------------|
| Category                   | Connectors     |
| Series                     | SEK Standard   |
| Element                    | Male connector |
| Description of the contact | Angled         |

## Version

|                    |                                    |
|--------------------|------------------------------------|
| Termination method | Reflow soldering termination (THR) |
| Connection type    | PCB to cable                       |
| Number of contacts | 20                                 |
| Termination length | 2.9 mm                             |
| PCB fixing         | With board locks                   |

## Technical characteristics

|                                    |                                                                 |
|------------------------------------|-----------------------------------------------------------------|
| Contact rows                       | 2                                                               |
| Contact spacing (termination side) | 2.54 mm                                                         |
| Rated current                      | 1 A                                                             |
| Insulation resistance              | $>10^9 \Omega$                                                  |
| Contact resistance                 | $\leq 20 \text{ m}\Omega$                                       |
| Limiting temperature               | -55 ... +125 °C (during reflow soldering max. +240 °C for 60 s) |
| Performance level                  | 2<br>acc. to IEC 60603-13                                       |
| Mating cycles                      | $\geq 250$                                                      |
| Test voltage $U_{r.m.s.}$          | 1 kV                                                            |



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## Technical characteristics

|                 |                             |
|-----------------|-----------------------------|
| Isolation group | II ( $400 \leq CTI < 600$ ) |
| PCB thickness   | 1.6 mm                      |

## Material properties

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Material (insert)                         | Thermoplastic resin (PCT)                                      |
| Colour (insert)                           | Beige                                                          |
| Material (contacts)                       | Copper alloy                                                   |
| Surface (contacts)                        | Noble metal over Ni Mating side<br>Sn over Ni Termination side |
| Material flammability class acc. to UL 94 | V-0                                                            |
| RoHS                                      | compliant                                                      |
| ELV status                                | compliant                                                      |
| China RoHS                                | e                                                              |
| REACH Annex XVII substances               | Not contained                                                  |
| REACH ANNEX XIV substances                | Not contained                                                  |
| REACH SVHC substances                     | Not contained                                                  |
| Fire protection on railway vehicles       | EN 45545-2 (2020-08)                                           |
| Requirement set with Hazard Levels        | R26                                                            |

## Specifications and approvals

|                |                                                            |
|----------------|------------------------------------------------------------|
| Specifications | IEC 60603-13                                               |
| UL / CSA       | UL 1977 ECBT2.E102079<br>CSA-C22.2 No. 182.3 ECBT8.E102079 |

## Commercial data

|                |                                          |
|----------------|------------------------------------------|
| Packaging size | 1                                        |
| GTIN           | 5713140918979                            |
| ETIM           | EC002637                                 |
| eCl@ss         | 27460201 PCB connector (board connector) |



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Cross section of solder termination

