

SEK-19 SV HT MA LP STR29 50P PL3

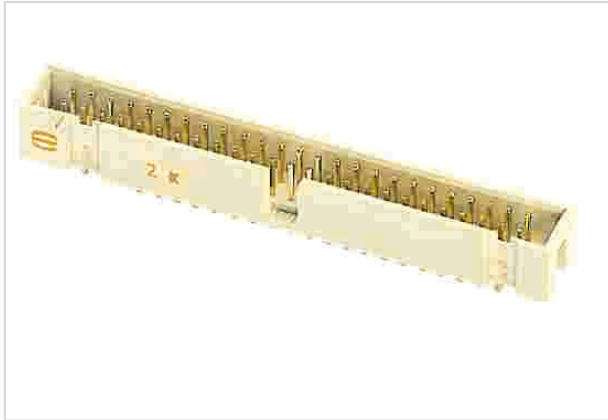


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Part number	09 19 550 7324
Specification	SEK-19 SV HT MA LP STR29 50P PL3
HARTING eCatalogue	https://b2b.harting.com/09195507324

Identification

Category	Connectors
Series	SEK Low-profile
Element	Male connector
Description of the contact	Straight

Version

Termination method	Reflow soldering termination (THR)
Connection type	PCB to cable PCB to PCB
Number of contacts	50
Termination length	2.9 mm

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)
Insertion and withdrawal force	$\leq 150 \text{ N}$
Performance level	3 acc. to IEC 60603-13
Mating cycles	≥ 50



Pushing Performance

Technical characteristics

Test voltage $U_{r.m.s.}$	1 kV
Isolation group	II ($400 \leq CTI < 600$)

Material properties

Material (insert)	Thermoplastic resin (PCT)
Colour (insert)	Beige
Material (contacts)	Copper alloy
Surface (contacts)	Noble metal over Ni Mating side 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	No
REACH ANNEX XIV substances	No
REACH SVHC substances	No
California Proposition 65 substances	Yes
California Proposition 65 substances	Nickel Lead

Specifications and approvals

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

Commercial data

Packaging size	50
Net weight	5.72 g
Country of origin	Romania
European customs tariff number	85366990
eCl@ss	27460201 PCB connector (board connector)

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① Temperature raise
- ② Derating curve
- ③ Derating curve 80%

Cross section of solder termination



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