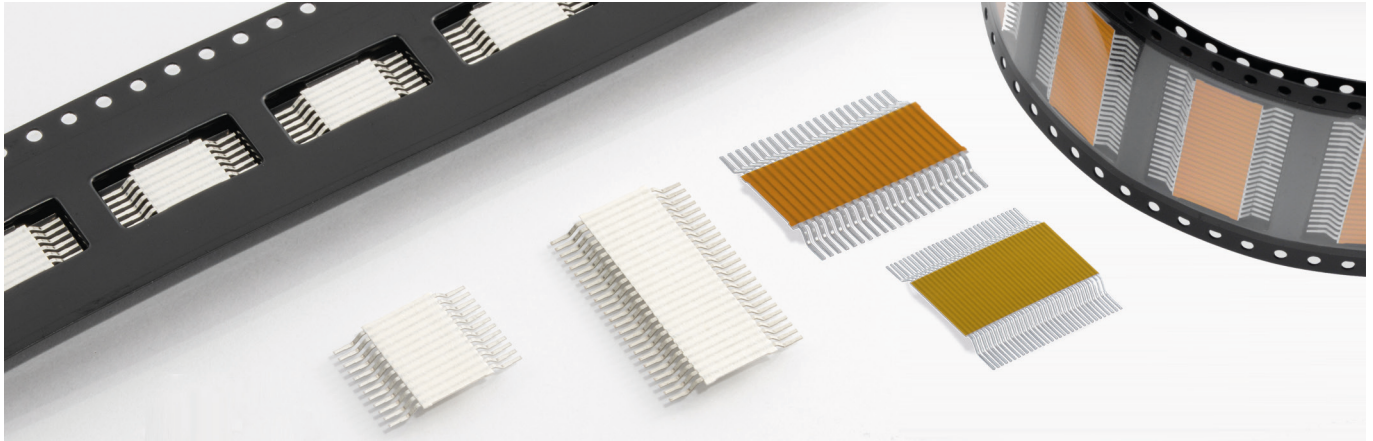


# PANTA<sup>®</sup> SMD / SMD R



The **PANTA SMD SYSTEM** is specially designed for use in automated assembly. It offers the user a wide range of placement options in electronic device manufacturing, even in difficult mounting situations.

SMD components are a reliable and robust connection technology, which is suitable for all standard placement techniques. In addition, they allow a very dense assembly of the printed circuit board.

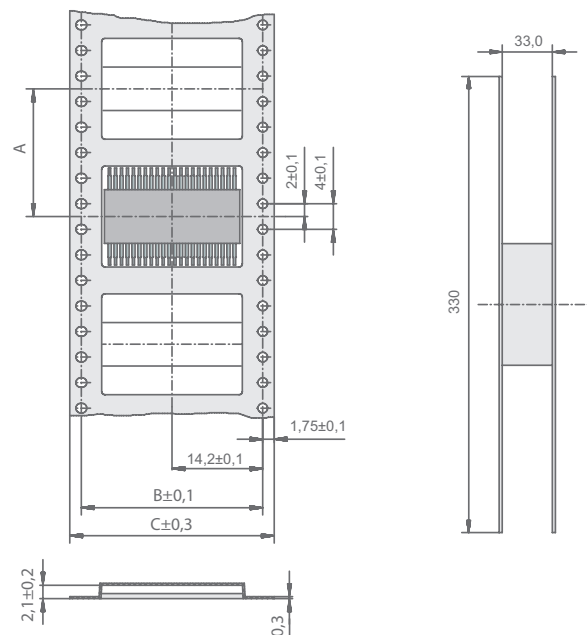
## FEATURES

- Widespread use in automotive and industrial electronics and medical technology
- Fulfills part accuracy and tolerance requirements for standard pick-and-place machines
- Temperature resistance up to  $-40^{\circ}\text{C}$  UP TO  $125^{\circ}\text{C}$  (higher temperatures on request)
- Current rating 1-2 A
- Vibration resistance
- Meets cleanliness requirements according to ISO 16232 and VDA 19.1
- Processing following standard soldering profiles according to DIN EN 61760-1 / J-STD-020
- Final assembly of the connected printed circuit boards of up to  $180^{\circ}$  possible

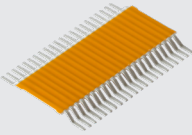
Please ask for our processing instructions for PANTA<sup>®</sup> SMD System.

## CUSTOMER BENEFITS


- Cost savings due to automatic placement
- Reliable connection technology
- Cost-effective alternative to rigid-flex printed circuit boards
- Reliable alternative to step-milled circuit boards
- Realization of special installation space situations
- Miniaturization, significant reduction in the size of circuits and devices due to smaller component dimensions
- Improvement of the production quality



## ORDER CODE

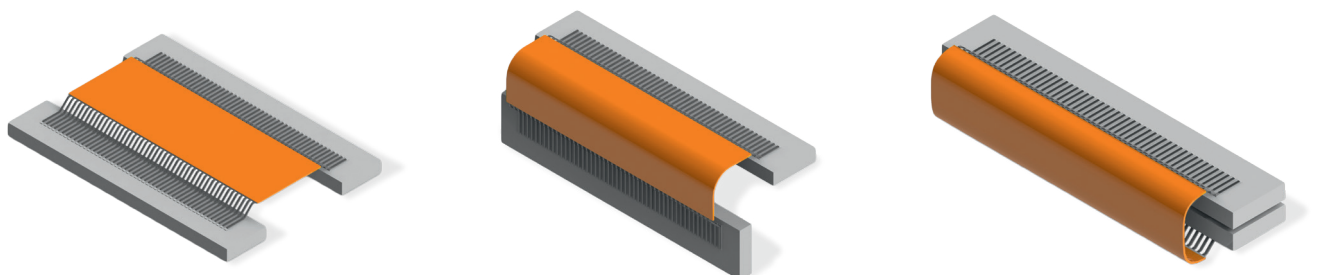


	<b>Pitch</b> 0,50 mm 0,93 mm	<b>Insulation length</b> E.g. 8,3 mm	
<b>SMD – 22 – 093 – K – 083 –</b>			<input type="checkbox"/>
<b>Number of poles</b>	<b>Insulation material</b> K = Polyimid N = Aramid	<b>Special</b> Special designs on customer request, drawing required	





	<b>Insulation material + length</b> Aramid fiber 15 - 35 mm	<b>Type variation</b> z. e.g. pitch E correspond- ing to the 9	
<b>SMD – E16 – N015 – R – 901 –</b>			<input type="checkbox"/>
<b>Pitch</b> E = 1,00 mm G = 1,25 mm B = 1,27 mm	<b>Connection form</b>	<b>Special</b> Special designs on customer request, drawing required	

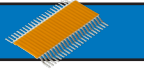

## EXAMPLES OF INSTALLATION SITUATIONS



## TECHNICAL DATA

ORDER CODE	SMD 		SMD R 	
Pitch (mm)	0,5	0,93	1,0	1,27
Number of poles (max.)	8 up to 32**	4 up to 25	4 up to 16	4 up to 16
Bridging length (mm)	11,2	11,2	20 - 40	20 - 40
Total length (mm)	15,2	15,2	22 - 42	22 - 42
Coplanarity (µm)	100	150	150	150
Insulation material (Foil)	Polyimid	Polyimid	Aramid	Aramid
Conductor material (mm)	Cu 0,1	Cu 0,15	Cu Ø 0,254	Cu Ø 0,32
Surface	NiSn	Sn / NiSn	NiSn	Sn / NiSn***
Rated voltage V <sub>DC</sub>	30	60	200	200
Current carrying capacity at 20°C	1A	2A	1,8 A	2,2 A
Operating temperature	-40 °C up to +125 °C	-40 °C up to +125 °C	-40 °C up to +125 °C	-40 °C up to +125 °C
Flammability	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0

## APPLICATION SPECIFICATION

ORDER CODE	SMD 		SMD R 	
Pitch	0,5	0,93	1,0	1,27
Min. Bending radius (mm)	2,0	2,0	2,0	2,0
Max. Bending change	5 X 180°	5 X 180°	50 X 180°	50 X 180°
Recommended Reflow Profile	DIN EN 61760-1 J-STD-020			
Reflow cycles (max.)	2	2	1	1
Packing (ESD)	IEC 60268-3 EIA-481-E			
Storage period (Months) From date of delivery	12	12	12	12