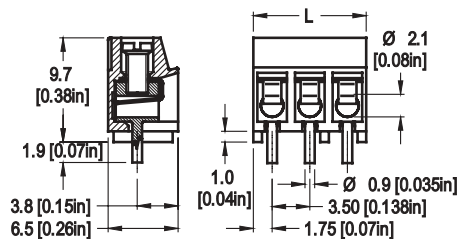


Series SMT

Types 930-THR (-DS)  
3.5 mm spacing • 2 to 12 poles



DESCRIPTION

Standoffs underneath the molding prevent bottom of molding from touching the solder paste and allow for a visual inspection of the solder joints and better air flow during the reflow soldering process.

- Through Hole Reflow • Wire entrance parallel to PC Board

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in) Wire Stripping length: 6 mm (0.25 in.)  
Nominal Cross Section: 1 mm<sup>2</sup> (1550 mils<sup>2</sup>) Recommended Hole Ø in PCB: 1.2 mm (0.047 in.)

APPROVAL INFORMATION

File No.	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
UL File No.: E69841	UL	7	300	26-16	B,C	max. 2.0 lbf.in.
CSA File No.: LR24322	CSA	7	300	26-16	B,E	max. 0.2 Nm

DS version is CSA certified for 26-18 AWG

MATERIAL

MOLDING: Polyamide 4.6, 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, black.

Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:	Short time:	260°C (500°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 250
	Oxygen Index Rating:	37%

Terminal Body: tin plated copper alloy

Wire Protector: nickel silver

Screw: yellow chromate passivated, zinc plated, steel, M2

Solder Pin: tin plated copper alloy, Ø 0.9 mm (0.035 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS See How to Order. If more than one option is required, please separate each option with a dash (-).

CN: Consecutive Numbering (hot stamped White numbers)

SM: Special Marking (please provide sketch)

G05: Gold Plating (5 micro inches)

G30: Gold Plating (30 micro inches)

S30: Silver Plating (30 micro inches)

TR: Tape and Reel Assembly

(Plated components: terminal body)

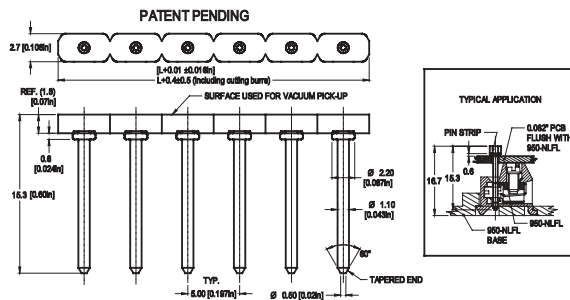
HOW TO ORDER

WIRE PROTECTOR:	POLES:	OPTIONS:
with: - DS	02 to 12	CN, SM, G05, G30, S30, TR

930-THR / -

Series SMT

Type 971-SLK-THR  
5 mm spacing • 2 to 12 poles



DESCRIPTION

Patent pending

- Pinstrip
- Plug-In Direction Perpendicular to PCB when plugged with 950-NAF, 950-NLFL, 958-NLFL, 950-FL-DS

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)

APPROVAL INFORMATION

Recommended current: 10A, recommended voltage: 300 V

MATERIAL

MOLDING: SPS (syndiotactic polystyrene), 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, white.

Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:	Short time:	240°C (464°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 250
	Oxygen Index Rating:	28%

Solder Pin: tin plated copper alloy, 1 mm (0.04 in.)

Average weight: 0.16 gram per pole.

OPTIONS See How to Order. If more than one option is required, please separate each option with a dash (-).

G05: Gold Plating (5 micro inches)

G30: Gold Plating (30 micro inches)

S30: Silver Plating (30 micro inches)

TR: Tape and Reel Assembly

(Plated components: solder pin)

HOW TO ORDER

POLES:	OPTIONS:
02 to 12	G05, G30, S30, TR

971-SLK-THR/



## TAPE AND REEL DATA - GENERAL GUIDELINE FOR SIZING

**Carrier tapes can be produced as per the following EIA standard, upon customer order. Non-standard configurations can also be produced. Tooling fees and minimum quantities may apply. Please consult factory.**

### Tape and Reel Data - 3.5 mm center to center spacing connectors

Compact SMT		Single Row Carrier Tape Widths		Reel sizes				Standard
Number of Poles	Length (mm)	mm	in.	Min Reel Hub Diameter		Overall Reel Diameter		
				mm	in.	mm	in.	
2	7.0	16	0.630	50	2	330	13	EIA-481-1
3	10.5	24	0.945	50	2	360	14	EIA-481rev A
4	14.0	24	0.945	50	2	360	14	EIA-481rev A
5	17.5	24	0.945	50	2	360	14	EIA-481rev A
6	21.0	44	1.732	50	2	360	14	EIA-481rev A
7	24.5	44	1.732	50	2	360	14	EIA-481rev A
8	28.0	44	1.732	50	2	360	14	EIA-481rev A
9	31.5	44	1.732	50	2	360	14	EIA-481rev A
10	35.0	56	2.205	100	4	609	24	EIA/IS-704
11	38.5	56	2.205	100	4	609	24	EIA/IS-704
12	42.0	56	2.205	100	4	609	24	EIA/IS-704
13	45.5	72	2.835	80	3	609	24	EIA/IS-704
14	49.0	72	2.835	80	3	609	24	EIA/IS-704
15	52.5	72	2.835	80	3	609	24	EIA/IS-704
16	56.0	72	2.835	80	3	609	24	EIA/IS-704
17	59.5	88	3.465	80	3	609	24	EIA/IS-704
18	63.0	88	3.465	80	3	609	24	EIA/IS-704
19	66.5	88	3.465	80	3	609	24	EIA/IS-704
20	70.0	88	3.465	80	3	609	24	EIA/IS-704
21	73.5	88	3.465	80	3	609	24	EIA/IS-704
22	77.0	104	4.094	80	3	609	24	EIA/IS-704
23	80.5	104	4.094	80	3	609	24	EIA/IS-704
24	84.0	104	4.094	80	3	609	24	EIA/IS-704

Connector Pole Quantity, Length and Mass			
Type	Poles	Length (mm)	Mass (g)
930-T-D-SMD	2 to 12	No. poles x 3.5	No. poles x 0.5
930-THR	2 to 12	No. poles x 3.5	No. poles x 0.5

#### General Rules for Tape Width

- Depending on the shape, a narrower tape may be adequate or a wider tape may be required.
- Depends on pocket draft angle needs.
- 44 mm tapes tend to be practical. 44 mm loaders are usually easily available and connectors fit well.
- 8,12,16 & 24 mm tapes have one set of sprocket holes. Allow 5 mm over total connector length.
- 32,44 & 56 mm tapes have two sets of sprocket holes. Allows 10 mm over total connector length.
- 72,88 & 104 mm tapes have two sets of sprocket holes. Allow 13 mm over total connector length.
- Applicable standards are ANSI/EIA-481 series and EIA/IS-704 series.
- Carrier tape widths are cited in mm only.
- Applies to deep embossed, adhesive sealed carrier tape and to mechanically interlocked tape.