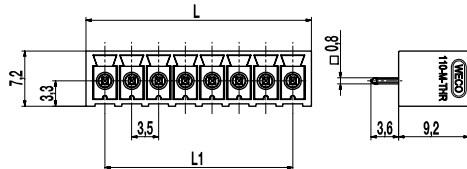
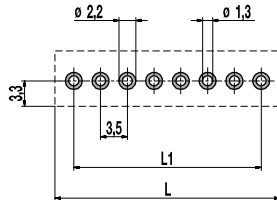


110-M-221-THR

Pin strip for THR
Plug-in direction vertical to PCB



PCB Layout



$L1 = (\text{No. of poles} - 1) \times \text{pitch}$
Solder paste thickness: 0,15 - 0,2 mm

The 110-M-221-THR is a pin strip, suitable for the reflow soldering process, in vertical design with a pitch of 3,5 mm and available from 2 to 12 poles. It is compatible to all standard plugs of the series 110 as well as to the Insulation Displacement Connector 110-A-IDC.

The housing of the pin strips correspond to the requirements of the increased soldering temperatures in the lead free soldering process. Spacers, so-called stand-offs, ensure a better hot-air circulation during the reflow soldering process in the convection oven and allow an improved visual control of the solder joint.

All THR pin strips of this series are packed Tape-on-Reel for the assembling with pick & place machines. They are equipped with high temperature resistant Pick Caps (see picture), which can be comfortably removed after the soldering process.

Part Numbers

No. of poles	110-M-221-THR	Length	PU
2	20.841.302	8,40	200
3	20.841.303	11,90	200
4	20.841.304	15,40	100
5	20.841.305	18,90	100
6	20.841.306	22,40	100
7	20.841.307	25,90	50
8	20.841.308	29,40	50
9	20.841.309	32,90	50
10	20.841.310	36,40	50
11	20.841.311	39,90	50
12	20.841.312	43,40	50

General Information

Pitch	3,5 mm
No. of poles	2 - 12
Usable with	all plug connectors of series 110
Additional Information	Version with connecting flanges see also 110-M-225-THR

Technical Data

Overvoltage Category	III	III	II
Pollution Severity Level	3	2	2
Rated Voltage	160 V	160 V	320 V
Rated Impulse Voltage	2,5 kV	2,5 kV	2,5 kV
Rated Insulation Voltage	130 V acc. to EN 60998-1		
Rated Current	8 A		
Soldering process	Wave solder & reflow solder		
Hole in PCB	ø 1,3 mm		
PCB thickness	Wave solder max. 1,6 mm; reflow solder 1,6 mm - 3,2 mm		

Material

Moulding	PA HT, black, V-0
Comparative Tracking Index	CTI ≥ 600
Insulating Group	I
Temperature Range	-40°C up to 120°C; reflow solder temperature peak max. 255°C acc. to DIN EN 61760-1
Solder pin	0,8 x 0,8 mm; tin plated brass

Approvals

	Current [A]	Voltage [V]	Group	AWG	[Nm]
	8	300	B, D		
	8	300	B		

Options / Accessories

- Consecutive numbering
- Special marking according to drawing
- Self-adhesive marking strip BST-3,50 [1]
- Coding elements 120-K-HT-WS

Part Numbers: Tape-on-Reel

No. of poles	110-M-221-THR	Tape Width	Tape Height	PU
5	20.841.305.A00	56 mm	14,9 mm	300
6	20.841.306.A00	56 mm	14,9 mm	300
7	20.841.307.A00	56 mm	14,9 mm	300
8	20.841.308.A00	56 mm	14,9 mm	300
9	20.841.309.A00	56 mm	14,9 mm	300
10	20.841.310.A00	56 mm	14,9 mm	300

further number of poles on request

[1] To be fitted after reflow soldering process