imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



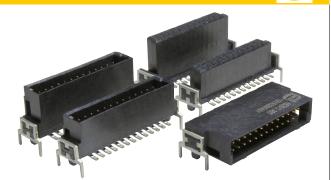
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har:flex® THR





har-flex® THR

Description

- THR stands for Through Hole Reflow and describes the termination technique of the hold downs, positioned on both sides of the connector
- The *har*-flex® THR combines the advantages of robust through hole solder connections with the automated processing features of SMD components
- These connectors are tailored for miniaturised and mechanically stressed applications

Technical characteristics

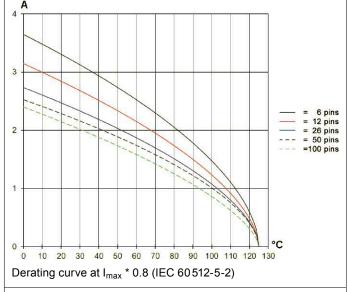
Number of contacts	6 100
Connector pitch	1.27 mm x 1.27 mm [0.050" x 0.050"]
Mating cycles	≥ 500, acc. to performance level 1
Working temperature range	
for connectors:	– 55 °C + 125 °C
The higher temperature limit includes the local ambient and heating effects of the contacts under load	
Temperature during reflow soldering (acc. to ECA/IPC/JEDEC J-STD-075 Level PSL R0)	min. 150 s > 217 °C min. 30 s > 240 °C
Electrical termination	
Contacts	SMT (Surface Mount Technology)
Hold downs	THR (Through Hole Reflow)
Materials	
Moulding material	LCP
UL approval	UL 94-V0
Contacts base material	Copper alloy
Contact surface	
Mating side Board connectors	Au over PdNi
Termination side Board connectors (SMT)	Sn

Technical characteristics

Current carrying capacity acc. to IEC 60512-5-2

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60512-5-2.



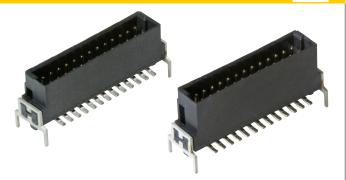
Working voltage acc. to IEC 60664-1

The working voltage depends on user specific operational conditions. Depending on the installation category, the degree of pollution and the entire electrical environment, the working voltage is different. The standard IEC 60664-1 specifies, in general, the minimum insulation distances for equipment. But it can also be used to determine the maximum working voltage with given requirements.

The following table shows the most common conditions applicable for the *har*-flex[®] connectors and exemplary calculations for the working voltage. For installation category, degree of pollution and other requirements which are not shown in the table we refer to the IEC 60664-1.

Clearance / Creepage distance		0.4 mm						
CTI-Value		< 400						
Isolation group	III a/b							
Electrical field type	Cas (Inhomoger	se A neous field)	Cas (Homogen	e B eous field)				
Installation category			I	II				
Degree of pollution	1 1		1	1				
Working voltage max.	150 V	100 V	150 V	150 V				



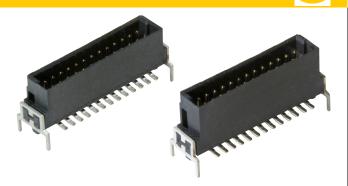


Male connectors, straight, with robust THR hold downs

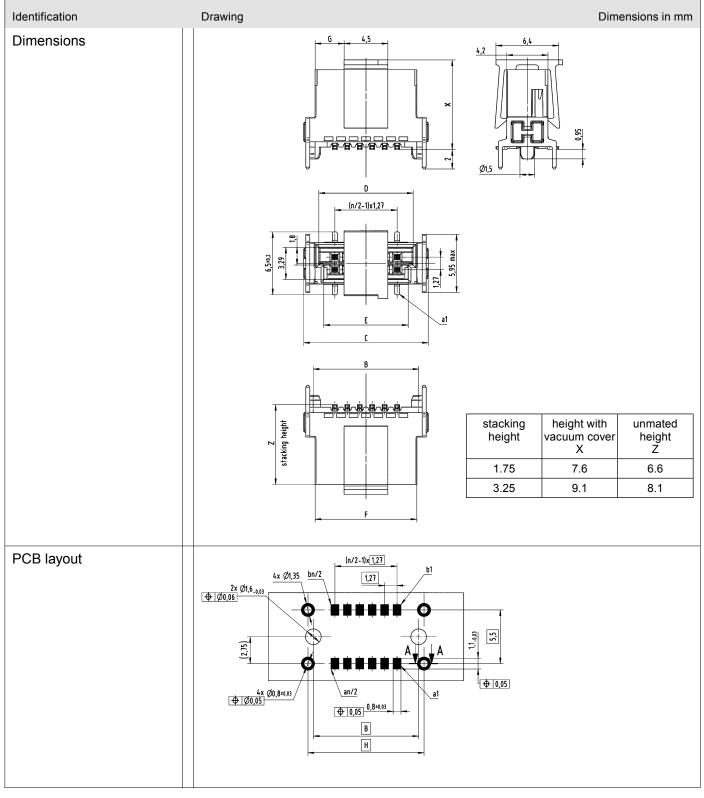
	contacts	Part number						imensior	13 11
Male connector, straight,			В	С	D	Е	F	G	ŀ
with robust	6	151.0062401	6.96	8.89	5.76	4.76	6.56	1.05	8.
THR hold downs,	12	151.0122401	10.77	12.70	9.57	8.57	10.37	2.96	11.
stacking heights	16	15 1 . 016 2401	13.31	15.24	12.11	11.11	12.91	4.23	14.
1.75 / 3.25 mm	20 26	15 1 . 020 2401 15 1 . 026 2401	15.85 19.66	17.78 21.59	14.65 18.46	13.65 17.46	15.45 19.26	5.50 7.40	16. 20.
	32	15 1 . 020 2401 15 1 . 032 2401	23.47	25.40	22.27	21.27	23.07	9.31	20.
	40	15 1 . 040 2401	28.55	30.48	27.35	26.35	28.15	11.85	29.
	50	15 1 . 050 2401	34.90	36.83	33.70	32.70	34.50	15.02	36.
	68	151.0682401	46.33	48.26	45.13	44.13	45.93	20.74	47.
	80	15 1 . 080 2401	53.95	55.88	52.75	51.75	53.55	24.55	55.
	100	15 1 . 100 2401	66.65	68.58	65.45	64.45	66.25	30.90	67.
Please insert digit for stacking height									



HARTING

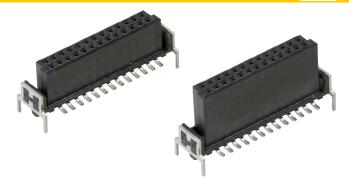


Male connectors, straight, with robust THR hold downs



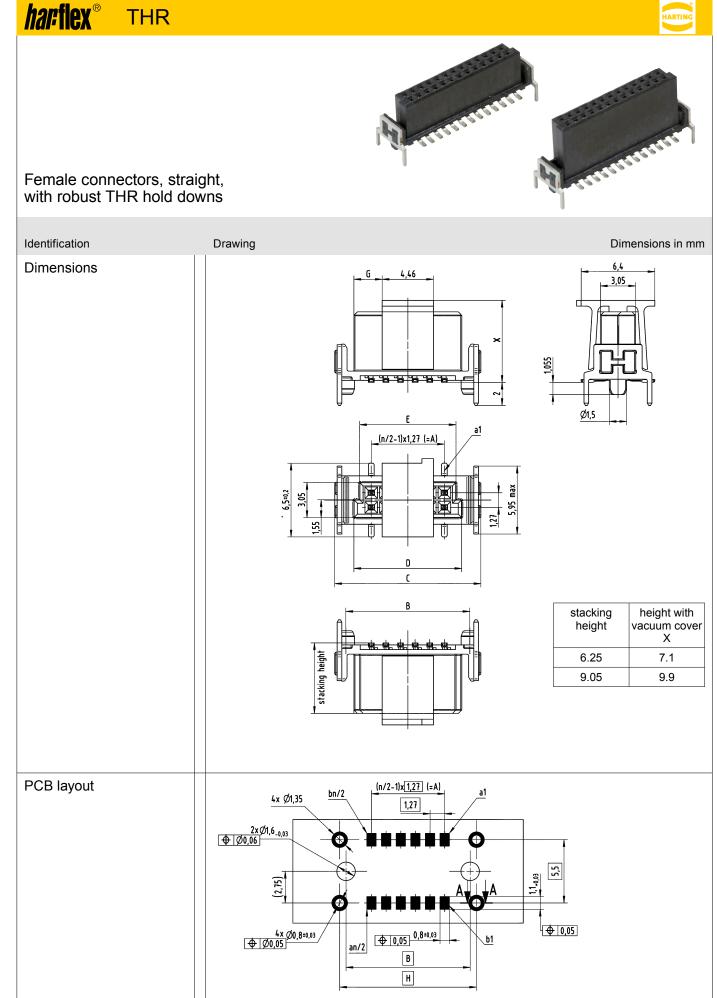






Female connectors, straight, with robust THR hold downs

Identification	No. of contacts	F	Part number					D	imensior	ns in i
Female connector,				Α	В	С	D	E	G	Н
straight, with robust	6	15.2	. 006 2401	2.54	6.96	8.89	5.56	4.56	1.19	8.
THR hold downs,	12		. 012 2401	6.35	10.77	12.70	9.37	8.37	2.46	11.8
-	16		. 016 2401	8.89	13.31	15.24	11.91	10.91	3.73	14.4
stacking heights	20		. 020 2401	11.43	15.85	17.78	14.45	13.45	5.00	16.9
6.25 / 9.05 mm	26		. 026 2401	15.24	19.66	21.59	18.26	17.26	7.54	20.7
	32		. 032 2401	19.05	23.47	25.40	22.07	21.07	8.81	20.1
	40		. 032 2401	24.13	28.55	30.48	27.15	26.15		
	50		. 040 2401	30.48	34.90	36.83	33.50	32.50	11.35 15.16	29.6 36.0
	68		. 068 2401	41.91	46.33	48.26	44.93	43.93	20.24	47.4
	80		. 080 2401	49.53	53.95	55.88	52.55	43.93 51.55	20.24	47.4 55.1
	100		. 100 2401	62.23	66.65	68.58	65.25	64.25	30.40	67.7
	100	15 2	. 100 2401	 02.23	00.00	00.00	05.25	04.20	30.40	07.1
Please insert digit for stacking height										
6.25 mm 🕨 1	- I I									







Male connectors, angled, with robust THR hold downs

Male connector,			A	В	С	D	E	F
angled, with robust	12	15 15 012 2401	6.35	10.77	12.70	9.57	8.57	12.
THR hold downs	26	15 15 026 2401	15.24	19.66	21.59	18.46	17.46	21.5
	80	15 15 080 2401	49.53	53.95	55.88	52.75	51.75	55.8
	100	15 15 100 2401	62.23	66.65	68.58	65.45	64.45	68.



Male connectors, angled, with robust THR hold downs

