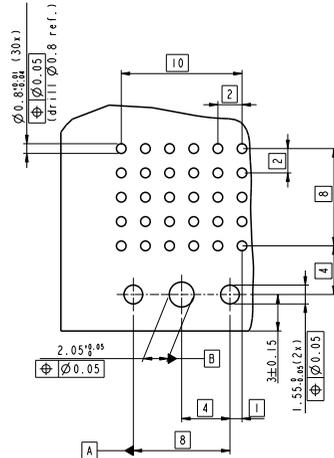


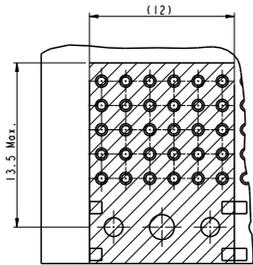
All items mentioned on this sheet are recommendations of FCI and should be seen as indication.
The final responsibility for the application process is at the customer.

PCB LAYOUT: HOLE PATTERN

PCB thickness 1.4 - 2.6 mm.

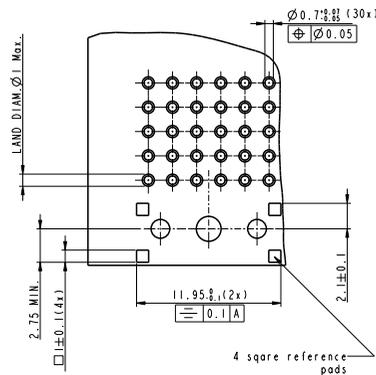


PCB LAYOUT: BOARD AREA



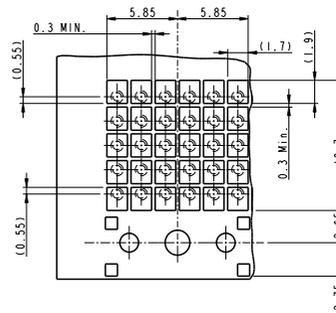
PCB LAYOUT: PLATING

Plating thickness must be constant over the connector area. Copper layer 50 μ m max. Solder mask should cover all surfaces under the paste that are not plated. There is no solder mask allowed on the reference pads.



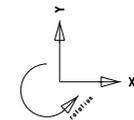
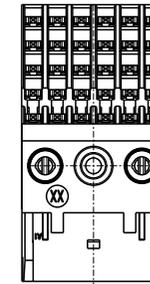
PCB LAYOUT : SOLDER PASTE

Recommended stencil thickness 0.15 mm.
The solder content in the paste should be sufficient, typically 50% volume percentage.
The solder fail, PCB, stencil and application process determine the solder result. The squeegee process (angle, speed, pressure, material and number of cycles) must be optimized, so that sufficient solder is available.



CONNECTOR MOUNTING

The connector can be picked up with a mechanical gripper or a vacuum nozzle. Nozzle diameter 6 - 10 mm. Both metal nozzles or nozzles with seal or rubber can be used. Vacuum pressure 0.6 bar under local ambient pressure. Position of the nozzle on the connector as mentioned on sheet 1. The reference for placing the connector can be determined by video inspection of the connector bottomside. The recesses of the retention pegs are designed for video recognition (shown bold, see sketch below). The line through the center of the recesses is the reference for Y-direction and rotation; datum B. The line through the middle between the center of the recesses perpendicular to the first line is reference for X-direction; datum A.



The acceleration and the deceleration of the mounting head of the pick and place equipment should be restricted in such a way that the connector doesn't fall or slides on the nozzle. An inferior accuracy of the placing equipment can reduce the success rate of mounting. The last movement of the connector must be purely vertical and downwards. The board must be horizontal. The final mounting force must be controlled in such a way that the connector is seated flush to the board and remains there after releasing from the placing device. (Extra PCB support can be required to meet this. The movement of the PCB-assembly before reflowing must be smooth so that all components remain seated flush on the board.

Material	-	Spec. ref.	-	projection	mm
Mat. code	-	surface	✓	tolerance	150 406
Heat treat	-	150 1302	150 1101	150 1101	150 1101
Plating/Finish	-				
Dr. IP Partner	2002/04/22			size	A1
Eng. P. Potlars	020117	Product family	Metral (17m)	Scale	S:1
Chr. P. Potlars	2002/04/22	Model Name	52049 ECN	LS08-D110	
Appr. P. Potlars	2002/04/23	Model Revision	F	REL Level	RELEASED
FCI	5x6 RA Assy	Signal RCP PIP	52049C	Rev.	G
Proj. file	catalog no	metral	customer copy	sheet	2 of 2

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