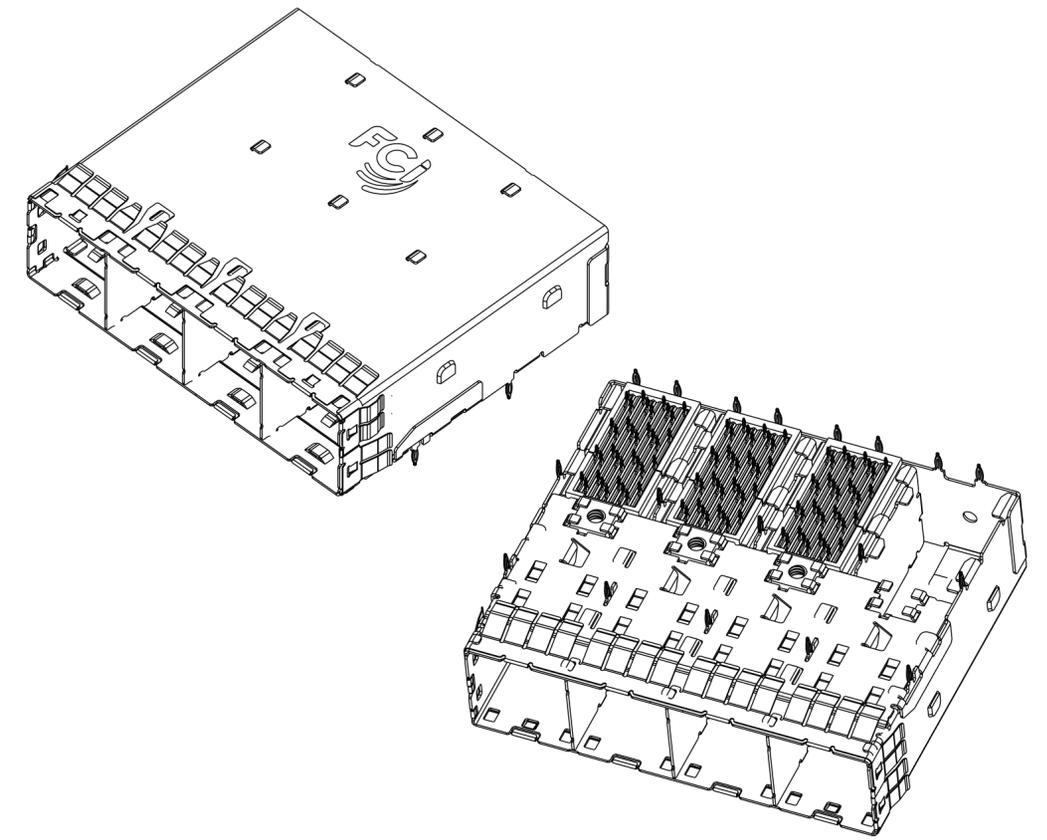
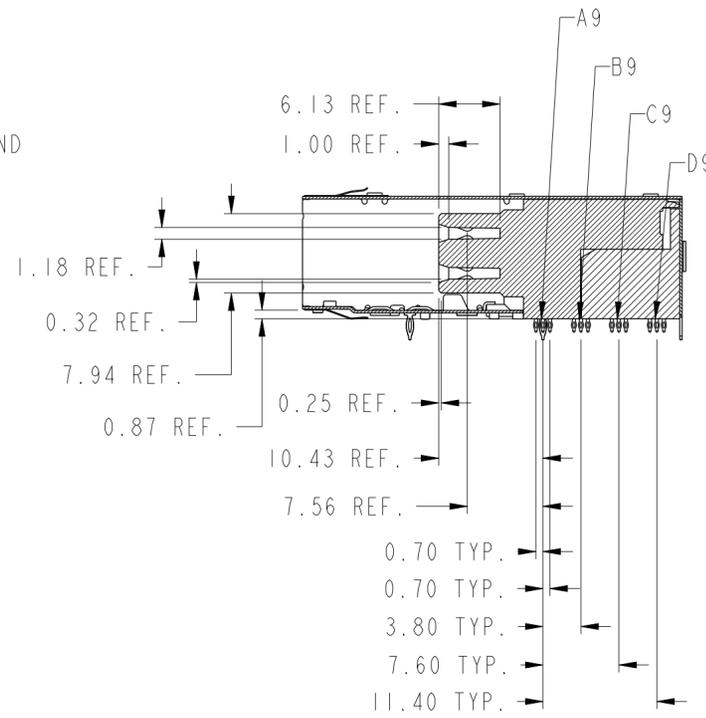
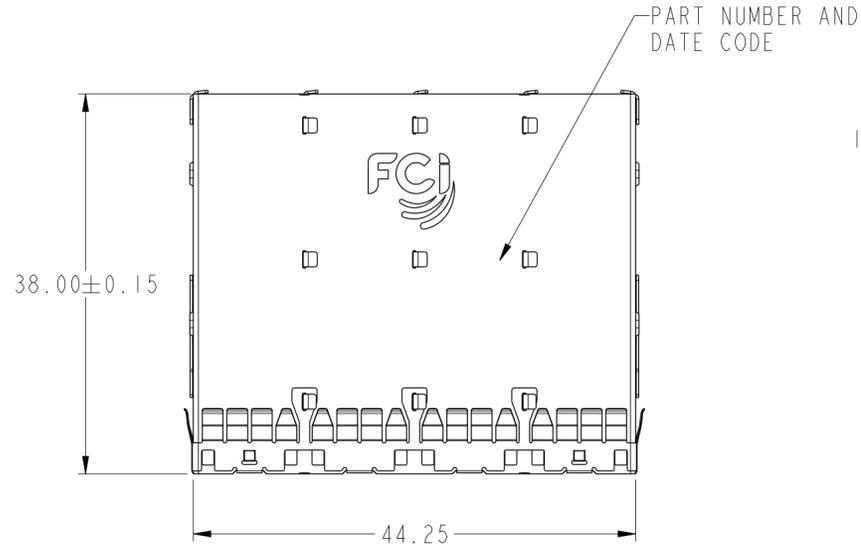
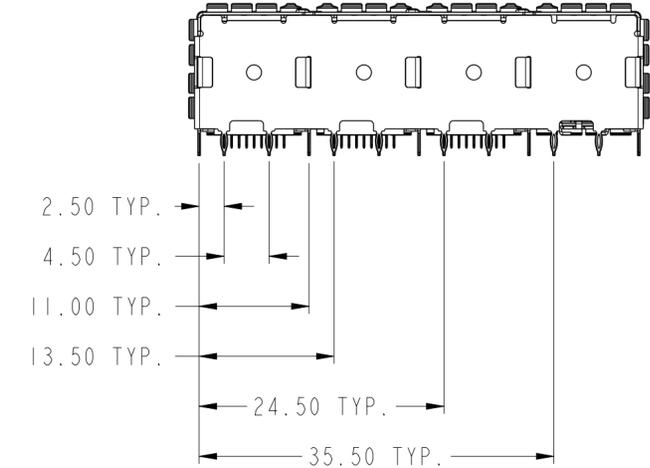
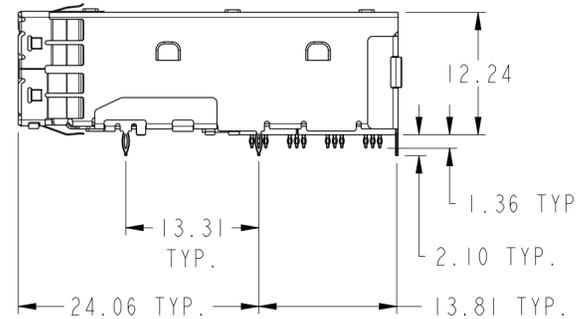
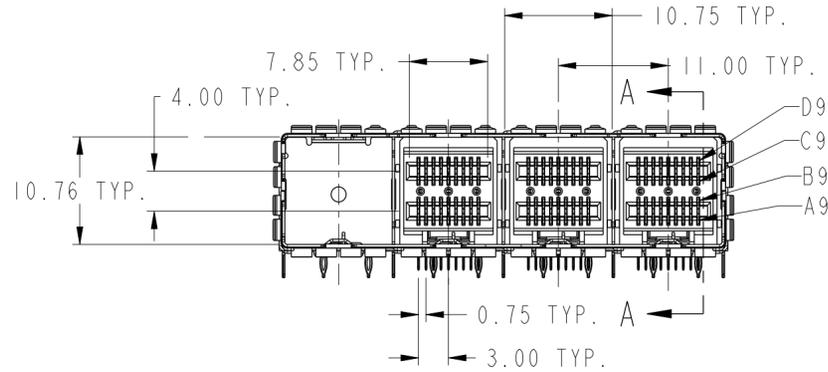


PRODUCT NUMBER	DESCRIPTION
10122504-101LF	SELECTIVE EXTERNAL



SECTION A-A  
SCALE 2:1



NOTES:

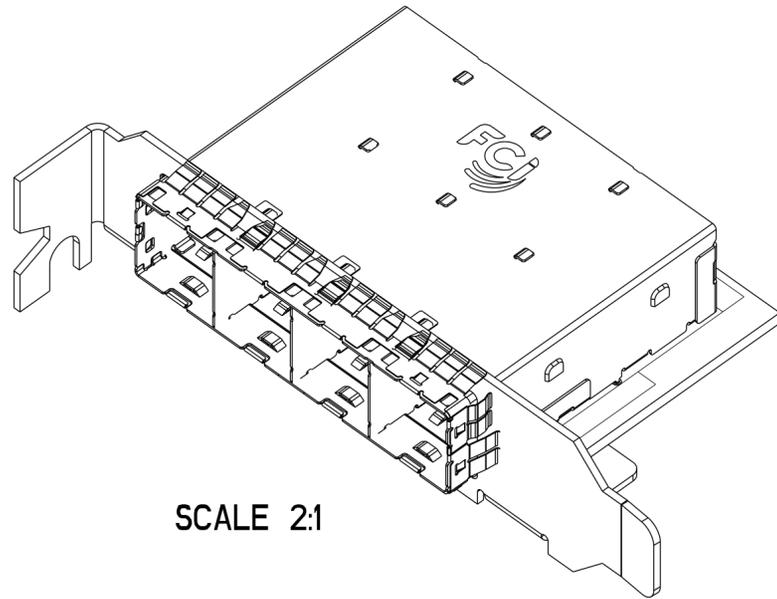
- MATERIALS:  
CONNECTOR HOUSING: HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0  
EMI CAGE: NICKEL SILVER ALLOY  
EMI FINGERS: COPPER ALLOY  
TERMINALS: COPPER ALLOY
- FINISHES:  
EMI FINGERS: 0.50um MIN NICKEL  
CONTACT AREA: 0.76um MIN GOLD OVER 2.54um MIN NICKEL  
TAIL AREA: 0.76um - 1.52um TIN (LEAD FREE) OVER 2.54um MIN NICKEL
- PRODUCT SPECIFICATION: GS-12-651  
APPLICATION SPECIFICATION: GS-20-0327
- MOUNTING HARDWARE: M2 X 0.4 BUTTON HEAD SCREW  
MOUNTING SCREW LENGTH: BOARD THICKNESS + 1.4mm MAX (0.9mm MIN).  
3 REQUIRED PER ASSEMBLY
- THIS CONNECTOR IS DESIGNED TO MEET THE REQUIREMENTS OF INDUSTRY SPECIFICATION SFF-8644.
- THE USE OF A PCI BRACKET OR EQUIVALENT IS REQUIRED FOR THIS PRODUCT
- A  $\triangle$  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAVE BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

MATES WITH MINI-SAS HD ENDS IN:
10112041 SERIES (4X)
10117771 SERIES (4X)
10117946 SERIES (4X)
10117949 SERIES (4X)
10117947 SERIES (8X)
10112359 SERIES (8X)
10117950 SERIES (8X)
10117948 SERIES (8X)

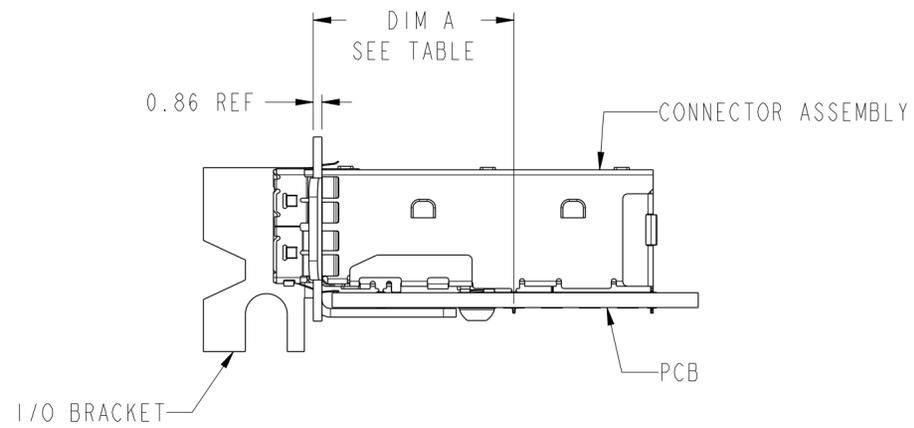
spec ref	-	dr	Qin De-Feng	2012/12/16	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Qin De-Feng	2014/02/19			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	apppr			Pei-Ming Zheng	2014/02/19	product family	-
surface	linear	0.X	±0.25		<b>FCI</b>		<b>1x4 SELECTIVE PORT</b>		dwg no 10122504	rev A
		0.XX	±0.20		MINI-SAS HD EXTERNAL					
		0.XXX	±		www.fci.com					
ASME Y14.5	angular	0°	±2°	cat. no.	-	Product - Customer Drw	sheet 1 of 5			

APPLICATION	DIM A
PCI ADD-IN CARD	19.00 ± 0.15
ALL OTHER APPLICATIONS	20.08 ± 0.15

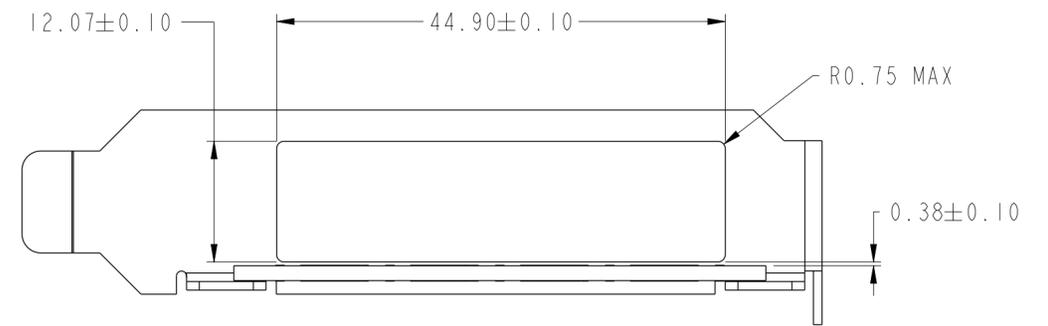
I/O BRACKET CUT OUT  
(BRACKET NOT SUPPLIED)  
SEE NOTE 6



SCALE 2:1



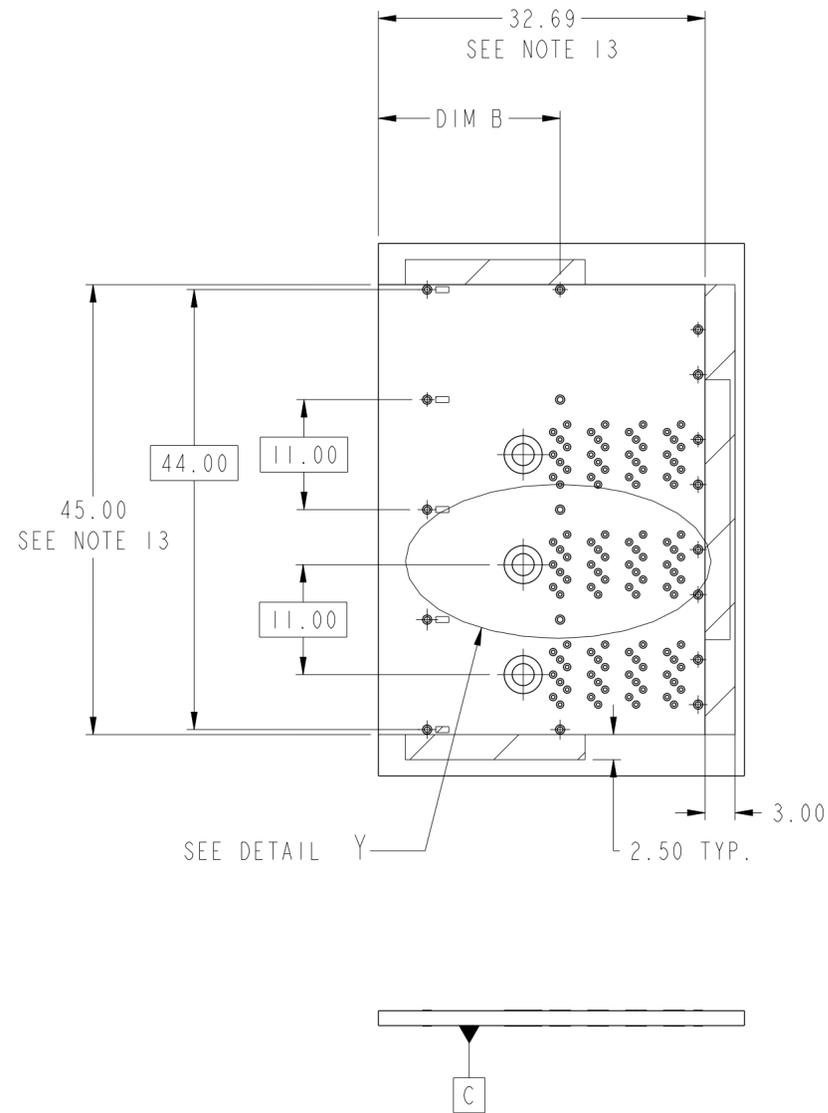
ASSEMBLED VIEW  
SCALE 2:1



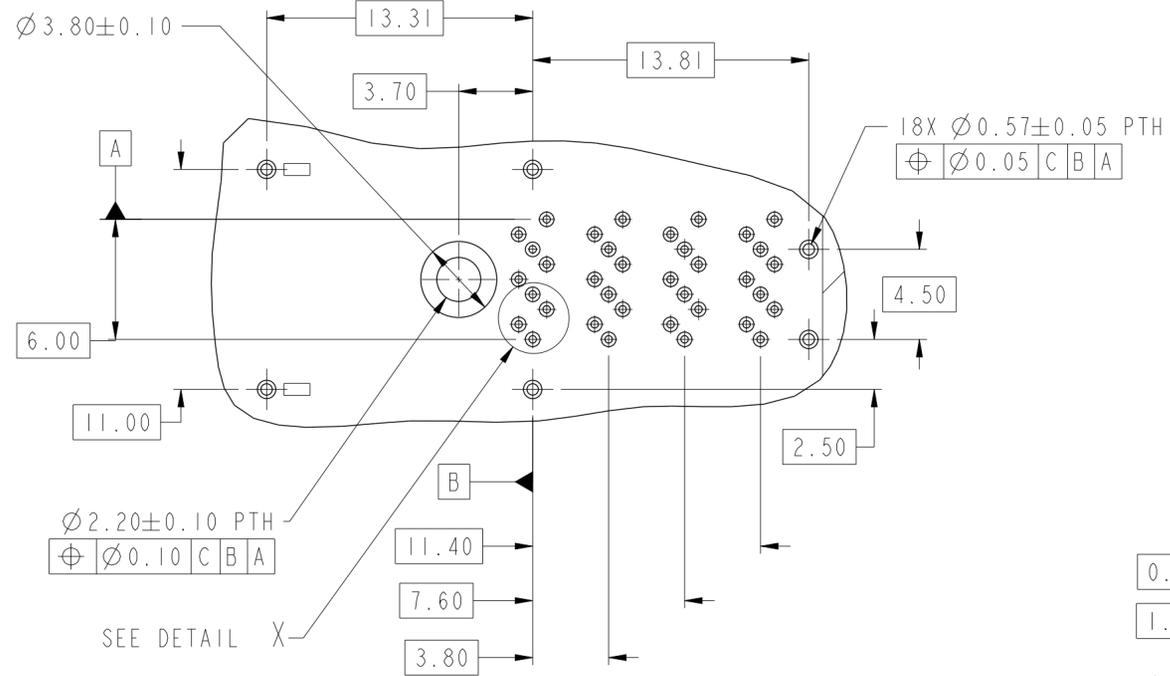
BRACKET LAYOUT  
SCALE 2:1

spec ref	-	dr	Qin De-Feng	2012/12/16	projection	MM	size	A2	scale	2:1
tolerance std	ASME Y14.5	eng	Qin De-Feng	2014/02/19			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	appr						
surface	✓	linear	0.X	±0.25		title I x4 SELECTIVE PORT MINI-SAS HD EXTERNAL	dwg no 10122504	rev A	Product - Customer Drw	
			0.XX	±0.20						
			0.XXX	±						
ASME Y14.5	angular	0°	±2°	www.fci.com	cat. no.	-	sheet 2 of 5			

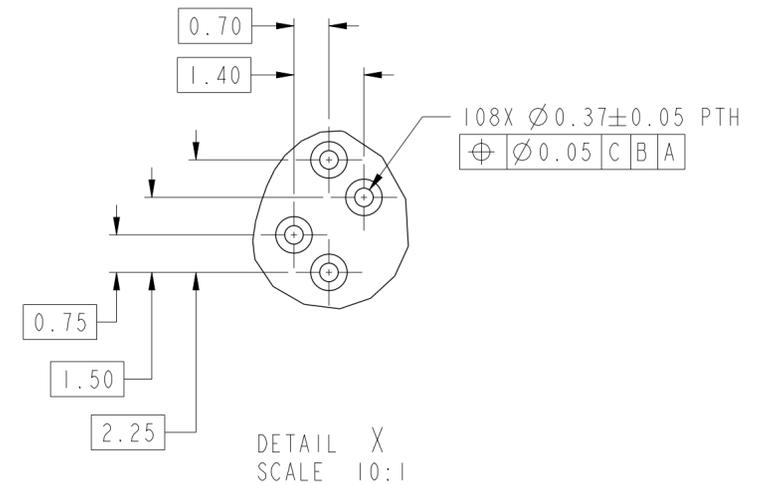
APPLICATION	DIM B
PCI ADD-IN CARD	17.10 ± 0.15
ALL OTHER APPLICATIONS	18.19 ± 0.15



### RECOMMENDED BOARD LAYOUT



DETAIL Y  
SCALE 4:1



DETAIL X  
SCALE 10:1

NOTES:

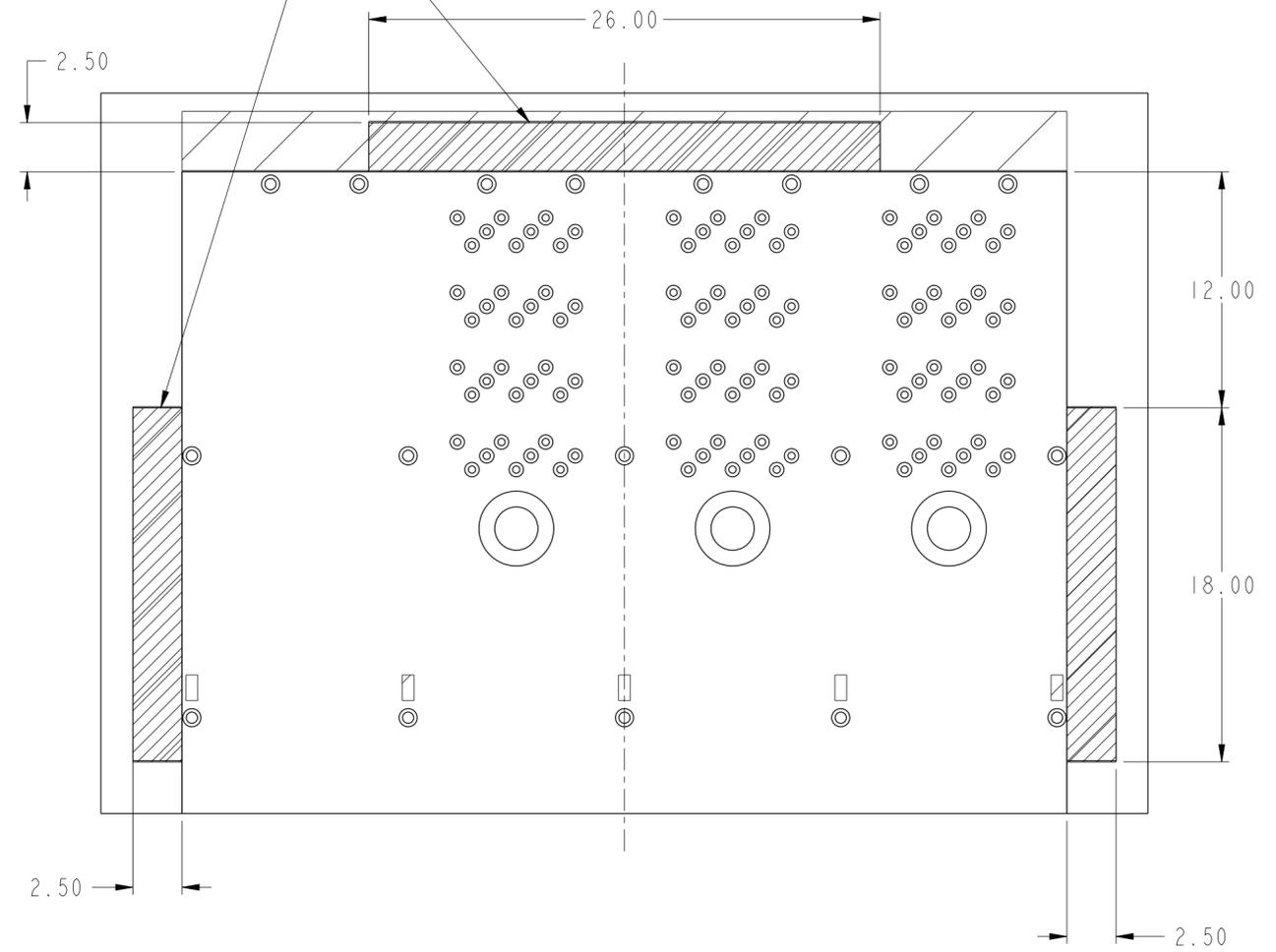
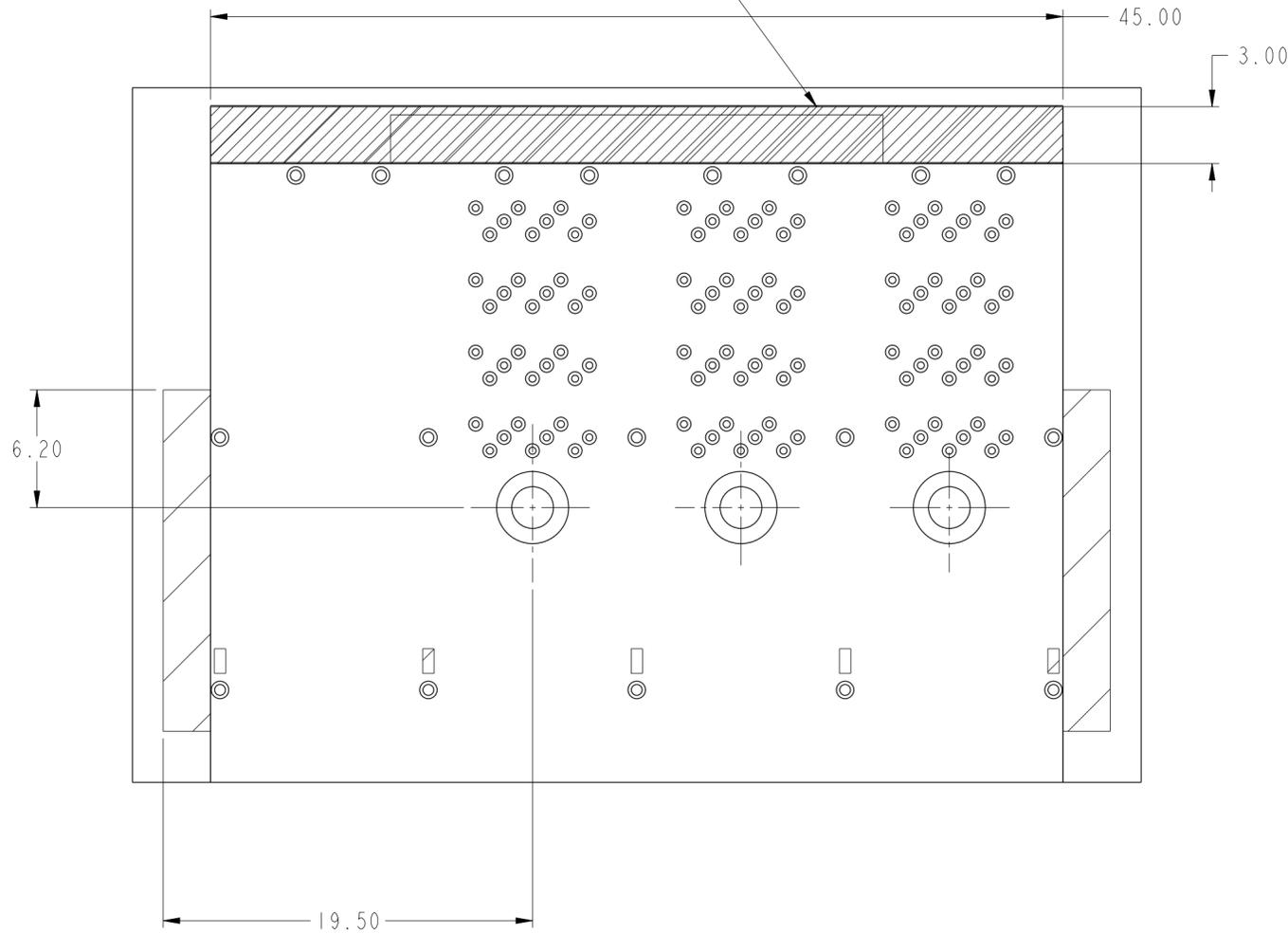
- RECOMMENDED DRILL SIZE FOR  $\varnothing 0.37$  FINISHED PTH IS  $\varnothing 0.457$ .
- RECOMMENDED ANNULAR RING AROUND  $\varnothing 0.37$  FINISHED PTH IS  $\varnothing 0.73$ .
- RECOMMENDED DRILL SIZE FOR A  $\varnothing 0.57$  FINISHED PTH IS  $\varnothing 0.68$ .
- RECOMMENDED ANNULAR RING AROUND A  $\varnothing 0.57$  FINISHED PTH IS  $\varnothing 0.93$ .
- MINIMUM RECOMMENDED CENTER TO CENTER SPACING BETWEEN ADJACENT CONNECTORS: 47.00mm.
- CONNECTOR KEEP OUT AREA.
- MINIMUM PCB THICKNESS: 1.57mm.

spec ref	-	dr	Qin De-Feng	2012/12/16	projection	MM	size	A2	scale	12:1
tolerance std	ASME Y14.5	eng	Qin De-Feng	2014/02/19			ecn no	rel level	Released	rev
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	appr						
surface	✓	linear	0.X	±0.25			title	1x4 SELECTIVE PORT		dwg no 10122504
ASME Y14.5	angular	0°	±0.20	±-	www.fci.com		cat. no.	-	Product - Customer Drw	

# RECOMMENDED TOOLING KEEP OUT AREAS

RECOMMENDED INSERTION TOOL  
KEEP OUT AREA  
NO COMPONENTS IN THIS AREA  
MORE THAN 7.50mm TALL

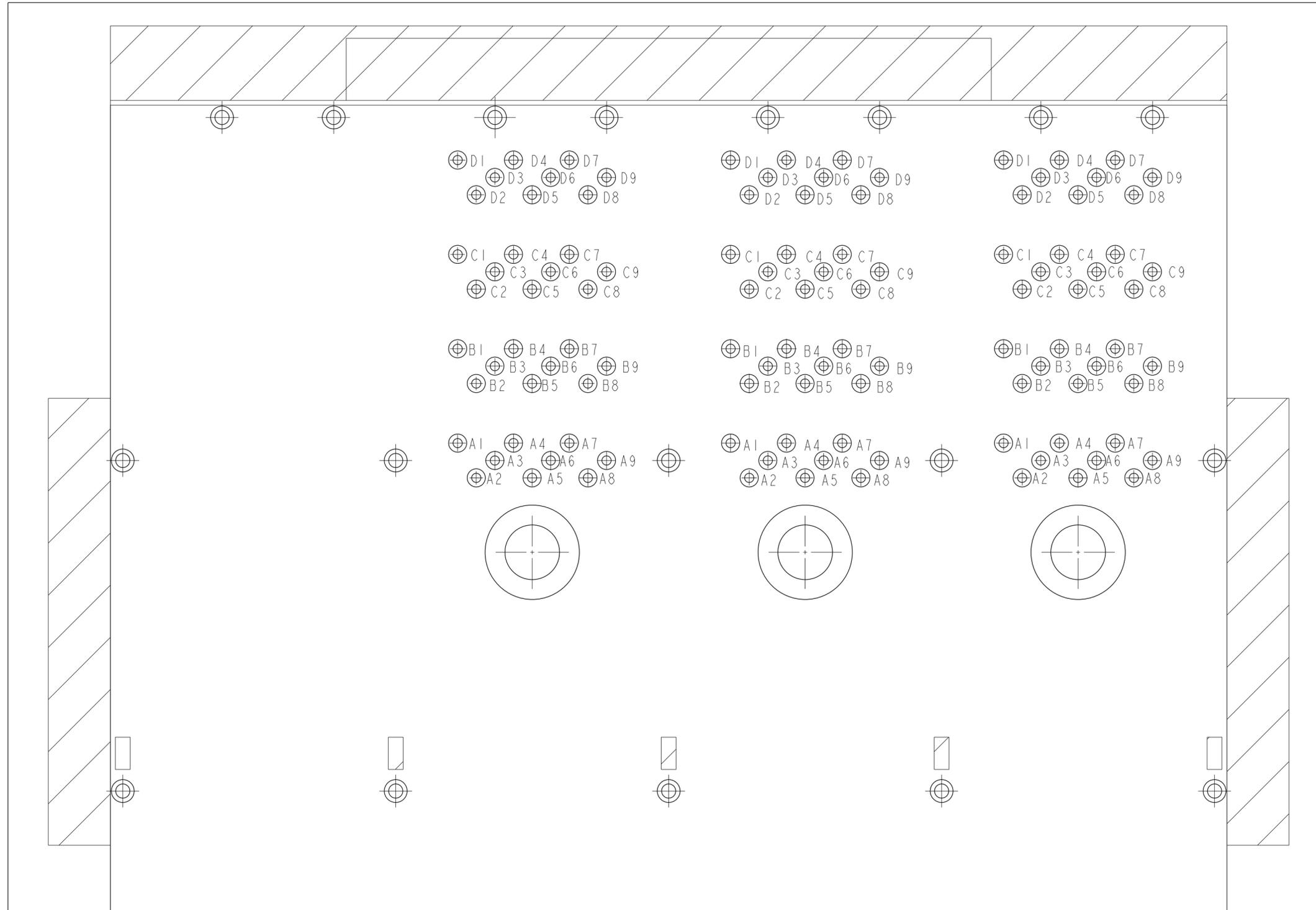
RECOMMENDED EXTRACTION TOOL  
KEEP OUT AREA  
NO COMPONENTS IN THESE AREAS



Copyright FCI.  
**FCI**

spec ref	-	dr	Qin De-Feng	2012/12/16	projection	MM	size	A2	scale	12:1	
tolerance std	ASME Y14.5	eng	Qin De-Feng	2014/02/19			ecn no	-	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	appr							Pei-Ming Zheng
surface	✓	linear	0.X	±0.25		title Ix4 SELECTIVE PORT MINI-SAS HD EXTERNAL	dwg no 10122504	rev A	Product - Customer Draw		
			0.XX	±0.20					cat. no.	-	sheet 4 of 5
			0.XXX	±					www.fci.com		
ASME Y14.5	angular	0°	±2°	PDS: Rev : A		STATUS: Released		Printed: Feb 19, 2014			

# PIN OUT DESIGNATIONS



spec ref	-	dr	Qin De-Feng	2012/12/16	projection	MM	size	A2	scale	12:1	
tolerance std	ASME Y14.5	eng	Qin De-Feng	2014/02/19			ecn no	-	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	apppr							Pei-Ming Zheng
surface	✓	linear	0.X	±0.25	product family		-	rel level	Released		
			0.XX	±0.20			title	1x4 SELECTIVE PORT		dwg no	10122504
			0.XXX	±-	www.fci.com		cat. no.	-		Product - Customer Drw	sheet 5 of 5
		angular	0°	±2°	PDS: Rev :A		STATUS:Released		Printed: Feb 19, 2014		