

1	2	3	4	5	6	7	8																																																																																																														
PRODUCT NUMBER	TAIL PLATING OPTION, SEE NOTE 2	IXI EXTERNAL ASSEMBLY WITH WINDOW	IXI HEAT SINK MOUNTING CLIP	HEAT SINK	NOTES:																																																																																																																
10112629-101	OPTION 1	10112626-103	10112656-003LF	10112655-001LF	1. MATERIALS: CONNECTOR HOUSING: HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0 EMI CAGE: NICKEL SILVER ALLOY EMI FINGERS: COPPER ALLOY TERMINALS: COPPER ALLOY HEAT SINK CLIP: STAINLESS STEEL HEAT SINK: ALUMINUM ALLOY																																																																																																																
10112629-101LF	OPTION 2	10112626-103LF			2. FINISHES: EMI FINGERS: 0.50um MIN NICKEL CONTACT AREA: 0.76um MIN GOLD OVER 2.54um MIN NICKEL TAIL AREA: OPTION 1: 0.76um - 1.52um TIN/LEAD (90/10) OVER 2.54um MIN NICKEL OPTION 2: 0.76um - 1.52um TIN (LEAD FREE) OVER 2.54um MIN NICKEL																																																																																																																
A	B	C	D	E	F	G	H																																																																																																														
<p>FCI Copyright FCI</p> <p>1. MATERIALS: CONNECTOR HOUSING: HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0 EMI CAGE: NICKEL SILVER ALLOY EMI FINGERS: COPPER ALLOY TERMINALS: COPPER ALLOY HEAT SINK CLIP: STAINLESS STEEL HEAT SINK: ALUMINUM ALLOY</p> <p>2. FINISHES: EMI FINGERS: 0.50um MIN NICKEL CONTACT AREA: 0.76um MIN GOLD OVER 2.54um MIN NICKEL TAIL AREA: OPTION 1: 0.76um - 1.52um TIN/LEAD (90/10) OVER 2.54um MIN NICKEL OPTION 2: 0.76um - 1.52um TIN (LEAD FREE) OVER 2.54um MIN NICKEL</p> <p>3. PRODUCT SPECIFICATION: GS-12-651.</p> <p>4. PRODUCT PACKING SPECIFICATION: GS-14-1490. EXTERNAL ASSEMBLY WITH WINDOWS WILL BE IN ONE BOX. HEAT SINK AND HEAT SINK MOUNTING CLIP WILL BE IN EACH ONE BOX. TOTAL THREE BOXES WILL BE IN A MASTER CARTON.</p> <p>5. APPLICATION SPECIFICATION: GS-20-0327.</p> <p>6. MOUNTING HARDWARE: M2X0.4 BUTTON HEAD SCREW MOUNTING SCREW LENGTH: BOARD THICKNESS + 1.4mm MAX (0.9mm MIN). 1 REQUIRED PER ASSEMBLY. MOUNTING HARDWARE NOT SUPPLIED.</p> <p>7. THIS CONNECTOR IS DESIGNED TO MEET THE REQUIREMENTS OF INDUSTRY SPECIFICATION SFF-8644.</p> <p>8. HEAT SINK AND HEAT SINK MOUNTING CLIP FINAL ASSEMBLY AFTER EXTERNAL ASSEMBLY WITH WINDOW APPLIED TO PCB.</p> <p>MATES WITH MINI-SAS HD ENDS IN:</p> <ul style="list-style-type: none"> 10112041 SERIES (4X) 10117771 SERIES (4X) 10117946 SERIES (4X) 10117949 SERIES (4X) 																																																																																																																					
<table border="1"> <tr> <td>spec ref</td> <td>-</td> <td>dr</td> <td>Benny Chen</td> <td>2012-05-07</td> <td>projection</td> <td>MM</td> <td>size</td> <td>A2</td> <td>scale</td> <td>4.000</td> </tr> <tr> <td>tolerance std</td> <td>-</td> <td>eng</td> <td>De-Feng Qin</td> <td>2013-03-01</td> <td></td> <td></td> <td>ecn no</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ISO 406</td> <td>TOLERANCES UNLESS OTHERWISE SPECIFIED</td> <td>chr</td> <td>Jon Qin</td> <td>2013-03-01</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ISO 1101</td> <td></td> <td>appr</td> <td>Pei-Ming Zheng</td> <td>2013-03-01</td> <td>product family</td> <td>MINI-SAS HD</td> <td>rel level</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ISO 1302</td> <td>surface</td> <td>linear</td> <td>0.0X</td> <td>±0.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.0XX</td> <td>±0.30</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.0XXX</td> <td>±-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>angular</td> <td>0°</td> <td>±3°</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>FCI</td> <td>IXI EXTERNAL ASSEMBLY WITH HEAT SINK MINI-SAS HD</td> <td>dg</td> <td>10112629</td> <td>rev</td> <td>A</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>www.fci.com</td> <td>col. no.</td> <td>dg</td> <td>sheet 1 of 6</td> <td></td> <td></td> </tr> </table>								spec ref	-	dr	Benny Chen	2012-05-07	projection	MM	size	A2	scale	4.000	tolerance std	-	eng	De-Feng Qin	2013-03-01			ecn no				ISO 406	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Jon Qin	2013-03-01							ISO 1101		appr	Pei-Ming Zheng	2013-03-01	product family	MINI-SAS HD	rel level				ISO 1302	surface	linear	0.0X	±0.50									0.0XX	±0.30										0.0XXX	±-										angular	0°	±3°												FCI	IXI EXTERNAL ASSEMBLY WITH HEAT SINK MINI-SAS HD	dg	10112629	rev	A						www.fci.com	col. no.	dg	sheet 1 of 6		
spec ref	-	dr	Benny Chen	2012-05-07	projection	MM	size	A2	scale	4.000																																																																																																											
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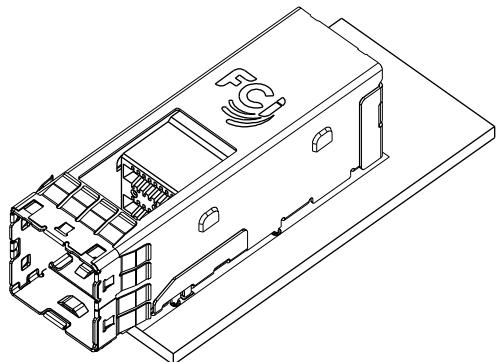
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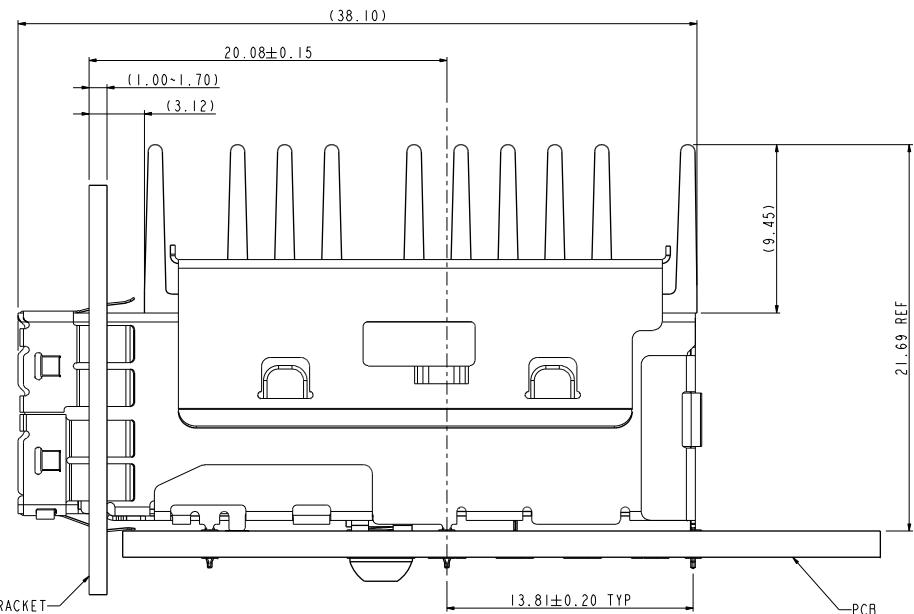
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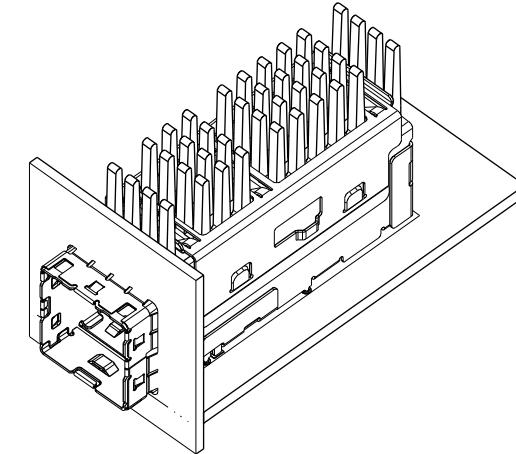


EXTERNAL ASSEMBLY WITH
WINDOW APPLIED TO PCB
10112626-103 & 103LF

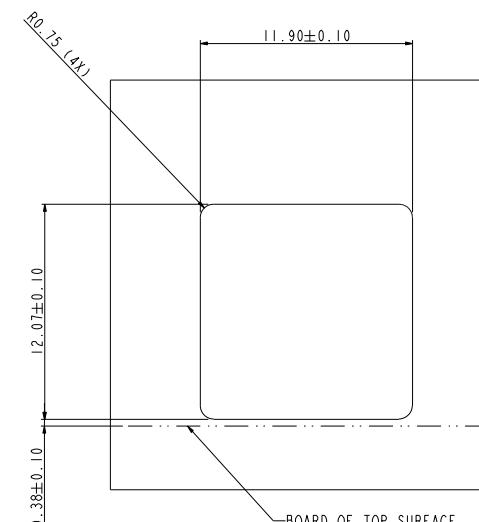


SCALE 5.000

ASSEMBLED VIEW
WITH HEAT SINK



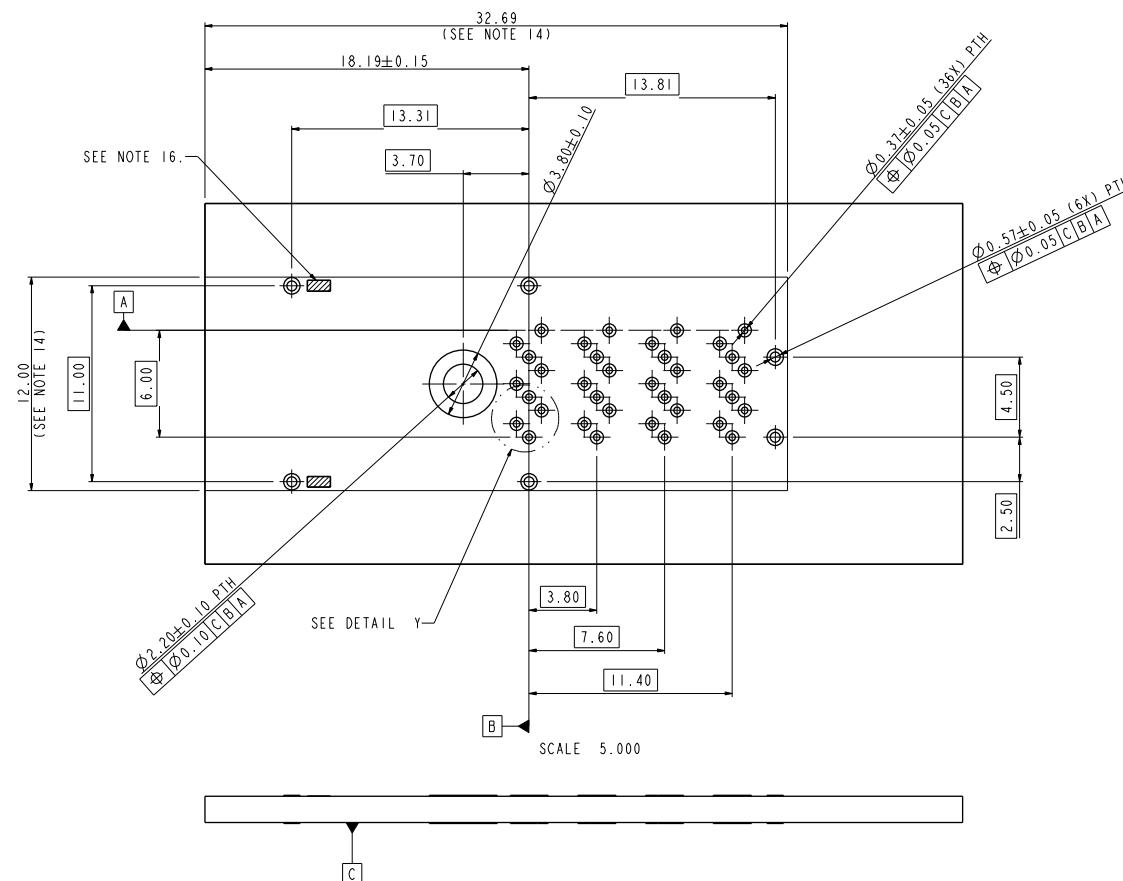
10112629-101 & 101LF
WITH HEAT SINK
(HEAT SINK AND HEAT SINK
MOUNTING CLIP FINAL ASSEMBLY
BY CUSTOMER)



SCALE 5.000

I/O BRACKET CUT OUT
(BRACKET NOT SUPPLIED)

spec ref	dr	Benny Chen	2012-05-07	projection	MM	size	scale
tolerance std	eng	De-Feng Qin	2013-03-01	ecn no		A2	1.000
ISO 406	chr	Jon Qin	2013-03-01				
ISO 1101	appr	Pei-Ming Zheng	2013-03-01	product family	MINI-SAS HD	rel level	
ISO 1302	surface	linear	0.0X ±0.50	FCI	1x1 EXTERNAL ASSEMBLY WITH HEAT SINK	draw no	10112629
		0.0XX ±0.30	MINI-SAS HD				A
		0.0XXX ±-	www.fci.com	col. no.	Product - Customer Drw	sheet 2 of 6	
		angular 0° ±3°					



NOTES

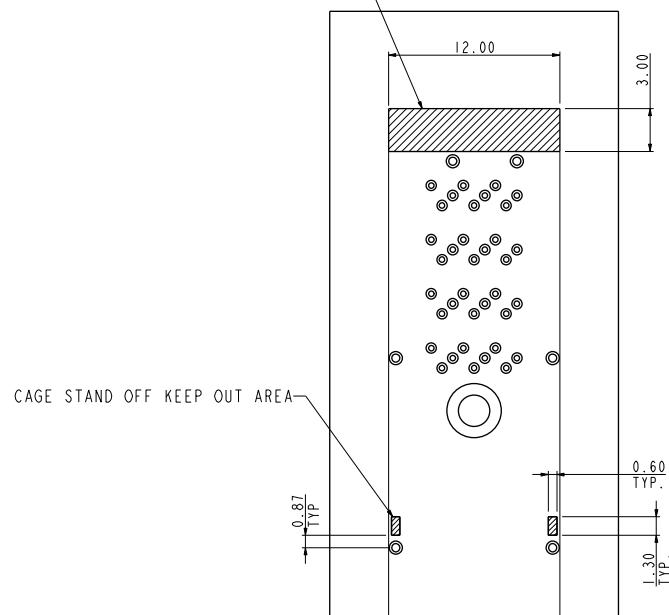
9. RECOMMENDED DRILL SIZE FOR $\phi 0.37$ FINISHED PTH IS $\phi 0.457$.
10. RECOMMENDED ANNULAR RING AROUND $\phi 0.37$ FINISHED PTH IS $\phi 0.73$.
11. RECOMMENDED DRILL SIZE FOR $\phi 0.57$ FINISHED PTH IS $\phi 0.68$.
12. RECOMMENDED ANNULAR RING AROUND $\phi 0.57$ FINISHED PTH IS $\phi 0.93$.
13. MINIMUM RECOMMENDED CENTER TO CENTER SPACING BETWEEN ADJACENT CONNECTORS: 14.00mm.
14. CONNECTOR KEEP OUT AREA.
15. MINIMUM PCB THICKNESS: 1.57mm.
16. CAGE STAND OFF AREA, NO TRACES ON SURFACE OF PCB IN THE AREAS

RECOMMENDED BOARD LAYOUT
SEE SFF-8644 FOR DETAIL

spec ref	dr	Benny Chen	2012-05-07	projection	MM	size	A2	scale	1.000	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	De-Feng Qin	2013-03-01				
ISO 406	chr	Jon Jon	2013-03-01	appri	Pei-Ming Zheng	2013-03-01	product family	MINI-SAS HD		
ISO 1101							ecn no			
							rel level			
surface	linear	0.X	±0.50							rev
		0.XX	±0.30							
		0.XXXX	±-							
ISO 1302	angular	0°	±3°	FCI			10112629			A
		EXTERNAL ASSEMBLY WITH HEAT SINK								
		MINI-SAS HD								
		www.fci.com			col. no.	Product	Customer Drw		sheet 3 of 6	

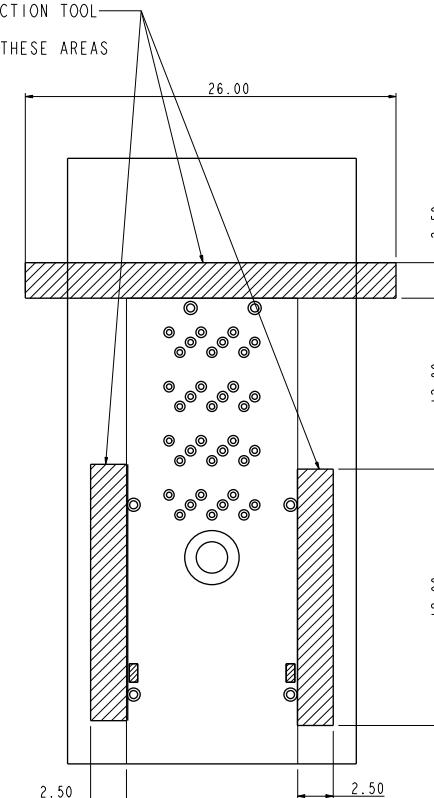
RECOMMENDED KEEP OUT AREAS

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



SCALE 4.000

RECOMMENDED EXTRACTION TOOL
KEEP OUT AREA
NO COMPONENTS IN THESE AREAS



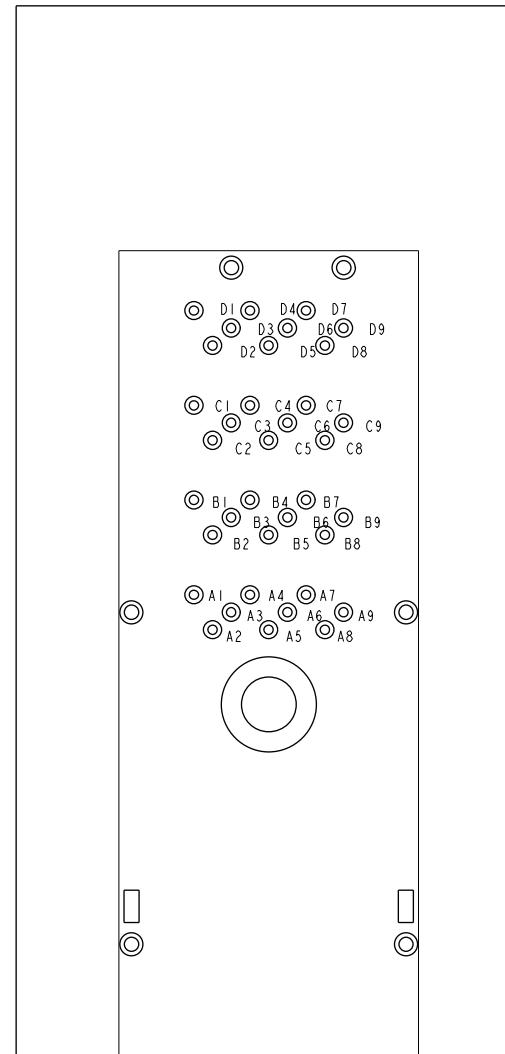
SCALE 4.000



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spec ref	-	dr	Benny Chen	2012-05-07	projection	MM	size	A2	scale	1.000
tolerance std	-	eng	De-Feng Qin	2013-03-01			ecn no			
ISO 406	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Jon Oin	2013-03-01						
ISO 1101		appr	Pei-Ming Zheng	2013-03-01	product family	MINI-SAS HD	rel level			
surface	✓	linear	0.0X	±0.50	FCI	1x1 EXTERNAL ASSEMBLY WITH HEAT SINK	diag no			
		0.0XX	±0.30			MINI-SAS HD				
		0.0XXX	±-							
ISO 1302		angular	0°	±3°	www.fci.com	cat. no.	10112629	rev		A

PIN OUT DESIGNATIONS



SCALE 7.000

spec ref	-	dr	Benny Chen	2012-05-07	projection	MM	size	scale		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	De-Feng Qin	2013-03-01			A2	1.000		
ISO 406		chr	Jon Qin	2013-03-01			ecn no			
ISO 1101		appr	Pei-Ming Zheng	2013-03-01	product family	MINI-SAS HD	rel level	-		
surface			0.X	±0.50	FCI		10112629	A		
	linear		0.XX	±0.30	EXTERNAL ASSEMBLY WITH HEAT SINK					
			0.XXX	±-	MINI-SAS HD					
	angular		0°	±3°	www.fci.com					
col. no.		Product - Customer Drw		sheet 5 of 6						

A

A

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C

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E

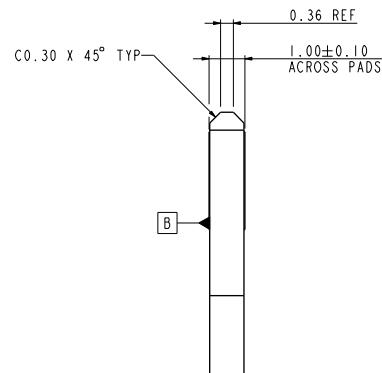
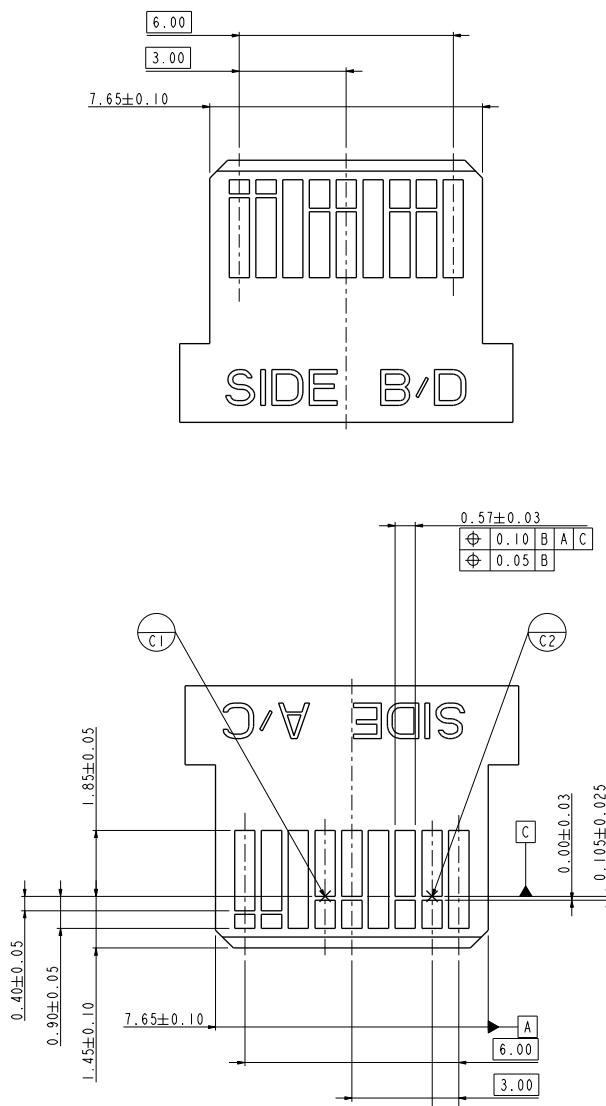
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NOTES:

17. 0.05 MINIMUM KEEP OUT FOR SOLDER MASK AROUND ALL PADS.
18. DATUM C TARGETS ARE DEFINED BY THE RESPECTIVE PAD CENTER LINES AND THE LEADING EDGE OF THE TARGET PADS.



RECOMMENDED PLUG PADDLE CARD
SEE SFF-8644 FOR DETAIL

spec ref	dr	Benny Chen	2012-05-07	projection	MM	size	scale
tolerance std	eng	De-Feng Qin	2013-03-01	ecn no		A2	1.000
ISO 406	chr	Jon Qin	2013-03-01	appr	MINI-SAS HD	rel level	-
ISO 1101							
ISO 1302	surface	linear	0.X ± 0.50				
		0.XX	± 0.30				
		0.XXX	$\pm -$				
		angular	0° $\pm 3°$				
				FCI	EXTERNAL ASSEMBLY WITH HEAT SINK	10112629	rev A
					MINI-SAS HD		
					www.fci.com	cat. no.	
						Product - Customer Drw	sheet 6 of 6

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