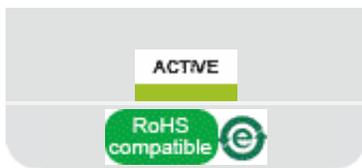


55740-001LF - GIG-Array® :
5 mm Receptacle 200 Position
Lead Free



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Mating Half

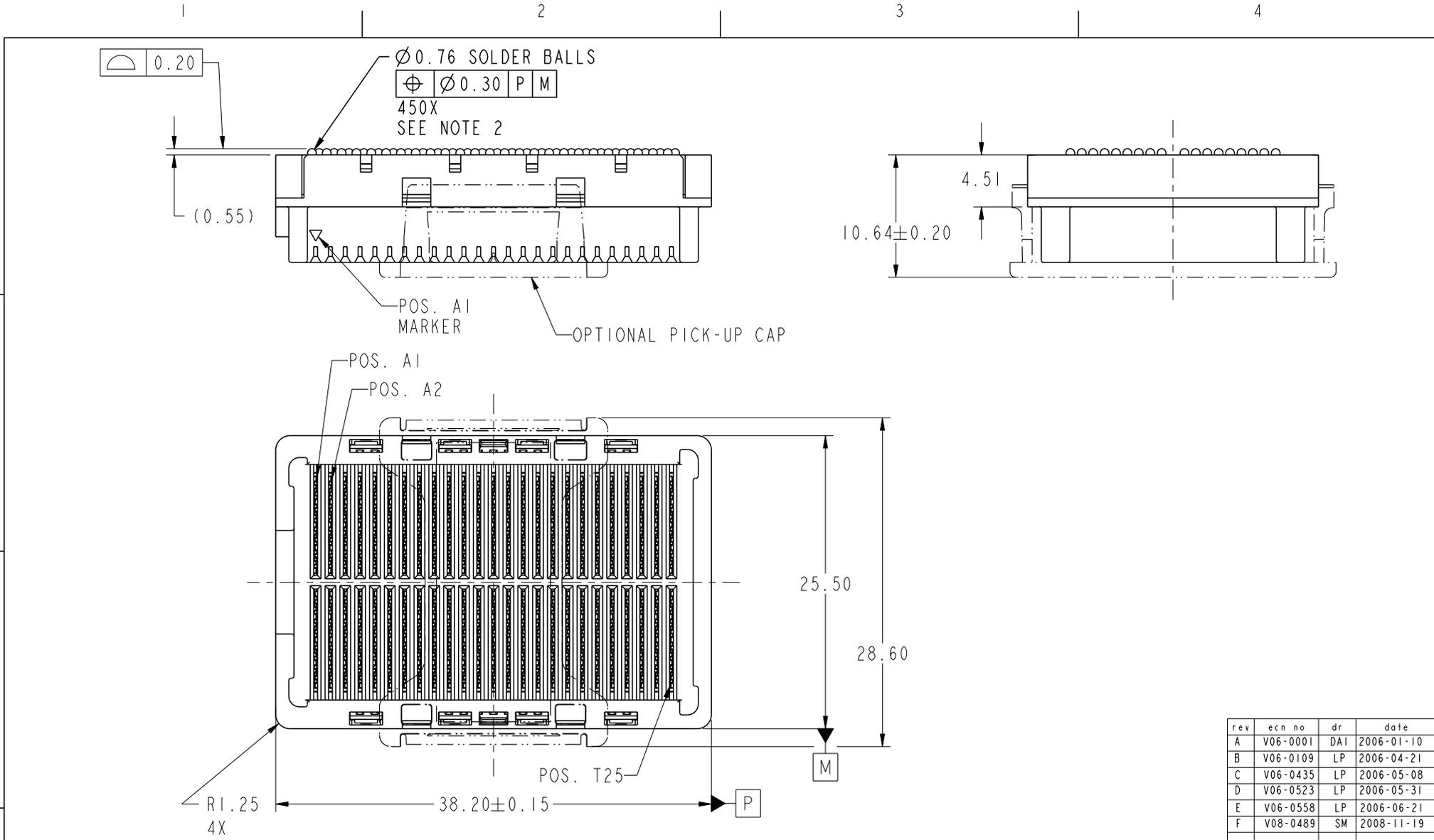
- ▶ 55737-001LF
- ▶ 10026802-001LF
- ▶ 10030626-001LF
- ▶ 10055142-001LF
- ▶ 10060910-001LF

Specifications

General	
Gender	Receptacle
Number of contacts (Total)	200
Quantity (per tray)	28
Dimensional	
Spacing (Board - approx. after soldering)	15 mm, 17 mm, 18 mm, 20 mm, 25 mm or 30 mm
Electrical	
Current rating	1 amp/Contact ≤ 30°C DT
Resistance (Contact)	(15 mm Stack Height ≤ 20 m ohms) (35 mm Stack Height ≤ 36 m ohms)
Resistance (Insulation)	1000 M-ohms
Voltage rating	500V AC
Mechanical	
Durability (Mating cycles)	25
Withdrawal Force	4.8 Kg (10.6 lbs.) Minimum
Mating force	19 Kg (41.9 lbs.) Maximum on First Mate
Physical	
Material (Contact)	High Strength Copper Alloy
Material (Housing)	LCP
Plating (Contact area)	Performance Based Plating
Temperature (Range)	-40°C to +85°C
Approvals / Certifications	
UL File Number	E66906
Approvals / Certifications	UL and CSA Approved
Other Features	
Packaging (Type)	Trays
Literature	Electrical Performance Brochure 950554-008 Data Sheet 950554-006



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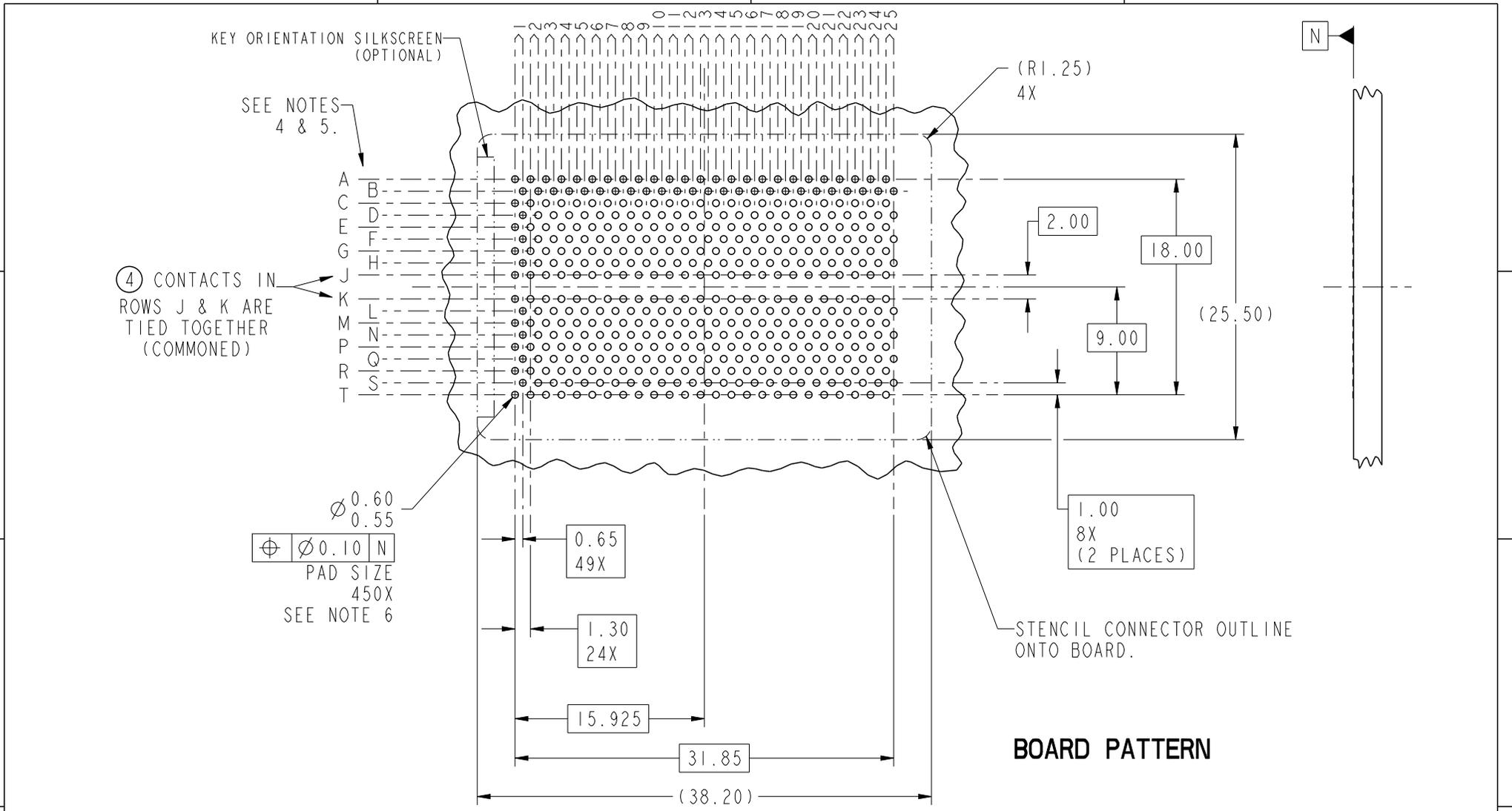
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A	V06-0001	DAI	2006-01-10
B	V06-0109	LP	2006-04-21
C	V06-0435	LP	2006-05-08
D	V06-0523	LP	2006-05-31
E	V06-0558	LP	2006-06-21
F	V08-0489	SM	2008-11-19

spec ref	*	dr	Bill Lin	2010/02/02	projection	mm	size	A4	scale	1:10		
tolerance std	ASME Y14.5	eng	Nickor Zuo	2011/06/09			ecn no	ELX-DG-003943-1				
		chr	Alex Cao	2011/06/24				product family	GIG-Array		rel level	Released
surface	✓	appr	Pei-Ming Zheng	2011/06/27			product family	GIG-Array		rel level	Released	
					title	GIG-Array		dwg no	55740		rev	G
						5mm RECP. ASSY. 200 SIG. POS.						
					cat. no.	Product - Customer Drw		sheet 1 of 5				

ProjE File - REV C - 2009-06-09



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BOARD PATTERN

spec ref	*	dr	Bill Lin	2010/02/02	projection	mm	size	A4	scale	1:10												
tolerance std	ASME Y14.5	eng	Nickor Zuo	2011/06/09			ecn no		ELX-DG-003943-1													
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Alex Cao	2011/06/24			rel level		Released													
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±0.30</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±0.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±0.05</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table>	linear	0.X	±0.30		0.XX	±0.10		0.XXX	±0.05	angular	0°	±2°	appr	Pei-Ming Zheng	2011/06/27	product family		GIG-Array		rev	G
linear	0.X	±0.30																				
	0.XX	±0.10																				
	0.XXX	±0.05																				
angular	0°	±2°																				
		www.fci.com			title GIG-Array 5mm RECP. ASSY. 200 SIG. POS.		dwg no 55740		sheet 2 of 5													
		cat. no.			Product - Customer Drw		STATUS:Released															

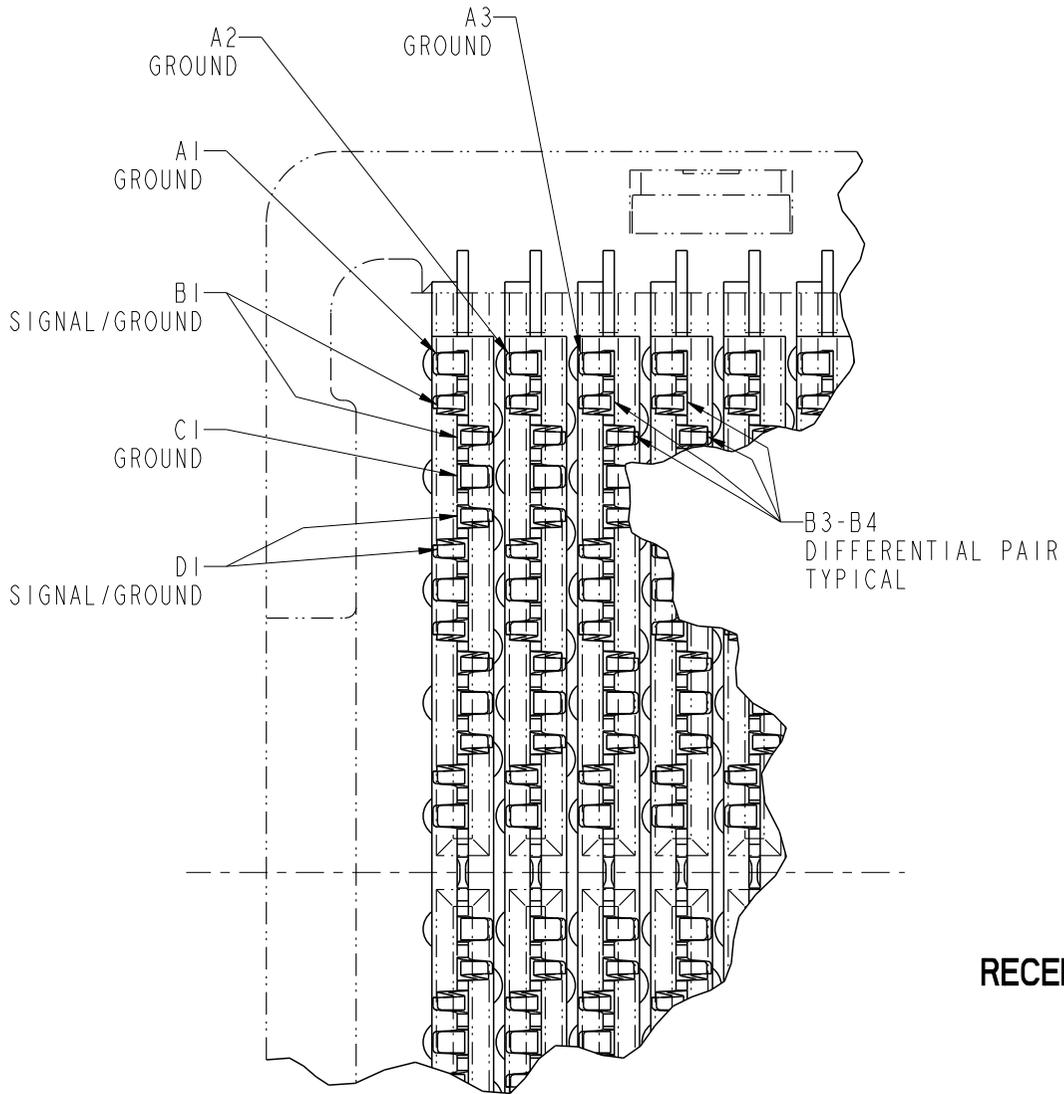
ProjE File - REV C - 2009-06-09

A

B

C

D



RECEPTACLE INTERFACE DESCRIPTION

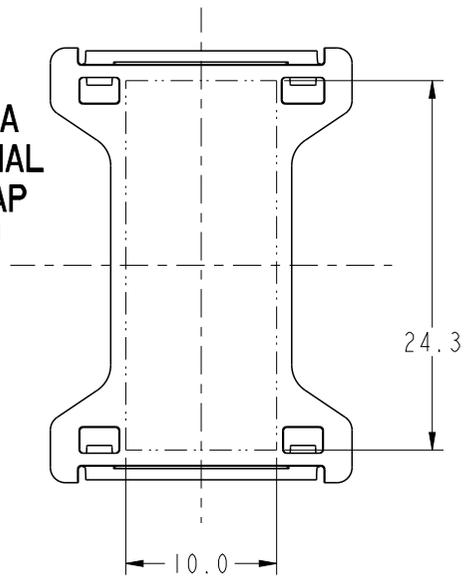


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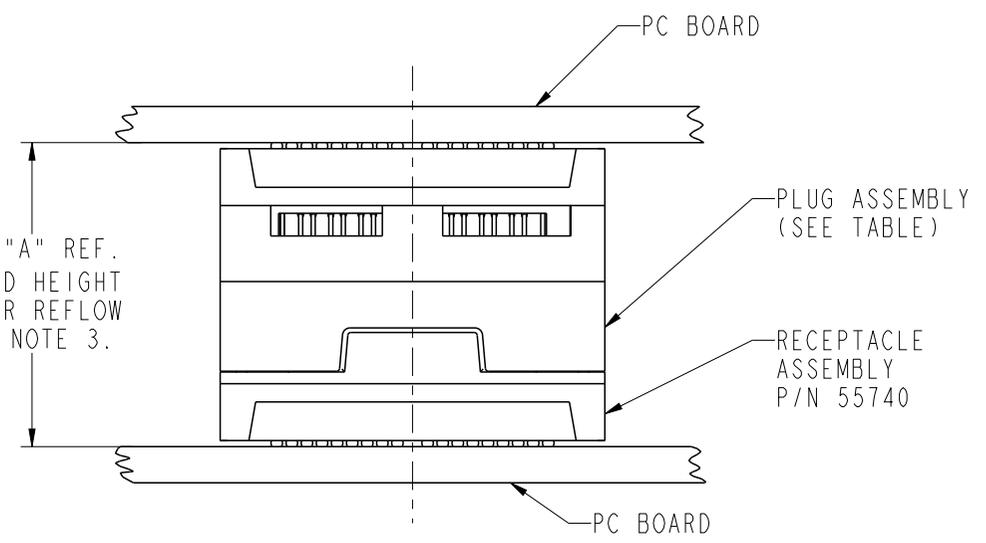
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tolerance std ASME Y14.5		eng Nickor Zuo		2011/06/09			ecn no ELX-DG-003943-1		
-		chr Alex Cao		2011/06/24			rel level Released		
surface ✓		appr Pei-Ming Zheng		2011/06/27	product family GIG-Array		rev		
-		linear	0.X ±0.30	 title GIG-Array 5mm RECP. ASSY. 200 SIG. POS.		55740		G	
			0.XX ±0.10			dwg no			
			0.XXX ±0.05			sheet 3 of 5			
		angular	0° ±2°	www.fci.com		cat. no. *		Product - Customer Drw	

PreE File - REV C - 2009-06-09

**FLAT AREA
FOR OPTIONAL
PICK-UP CAP**
SCALE 2:1



DIM "A" REF.
MATED HEIGHT
AFTER REFLOW
SEE NOTE 3.



END VIEW OF MATED CONNECTORS
SCALE 2:1

DIM. "A"	PLUG ASSEMBLY P/N
15	55737
17	10026802
18	10030626
20	55738
25	55739
30	10054783



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spec ref	*	dr	Bill Lin	2010/02/02	projection 	mm 	size	A4	scale	1:10		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Nickor Zuo	2011/06/09			ecn no	ELX-DG-003943-1				
ASME Y14.5		chr	Alex Cao	2011/06/24				rel level	Released			
-		appr	Pei-Ming Zheng	2011/06/27			product family		GIG-Array			
surface	linear	 www.fci.com	title		GIG-Array	dwg no	55740	rev	G			
-			5mm RECP. ASSY. 200 SIG. POS.	cat. no.						*	Product - Customer Drw	sheet 4 of 5
	angular		0°	±2°								

PrdE File - REV C - 2009-06-09

PRODUCT NUMBER	SOLDER BALL COMPOSITION	CONTACT PLATING PERFORMANCE LEVEL
55740-001	STANDARD (EUTECTIC)	PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-192, INCLUDING TELCORDIA CENTRAL OFFICE
55740-001LF	LEADFREE	
55740-201	STANDARD (EUTECTIC)	Au over Ni
55740-201LF	LEADFREE	

NOTES:

- ① MATERIAL:
HOUSING: LCP
CONTACT: COPPER ALLOY
PLATING (CONTACT): SEE TABLE.
UL RATING: 94 V-0
SOLDBALL: (SEE TABLE) EUTECTIC
SnPb OR LEAD FREE 95.5 Sn/4Ag/0.5Cu.
- ② SOLDER BALLS WILL NOT BE PERFECT SPHERICAL SHAPE DUE TO REFLOW ATTACHMENT.
- ③ MATED HEIGHT EFFECTED BY CUSTOMERS' PCB PAD SIZE, PLATING, SOLDER REFLOW PROFILE & SOLDER PASTE.
- ④ CONTACTS IN ROWS A,C,E,G,J,K,M,P,R AND T ARE SINGLE BEAM CONTACTS, TYPICALLY USED AS GROUND PINS.
(NOTE: CONTACTS IN ROWS J & K ARE TIED TOGETHER [COMMONED])
- ⑤ CONTACTS IN ROWS B,D,F,H,L,N,Q AND S ARE DUAL BEAM CONTACTS, TYPICALLY USED AS SIGNAL PINS.
- ⑥ SPECIFIED POSITIONAL TOLERANCE DEFINES PAD TO PAD LOCATION WITHIN LAND PATTERN. POSITIONAL TOLERANCE OF LAND PATTERN TO FUDICIAL MARKS OR PCB DATUMS SHALL BE DEFINED BY CUSTOMER. FOR RECOMMENDED PRODUCT APPLICATION AND PCB DESIGN DETAILS, SEE DOC. NO. GS-20-016.
- ⑦ FOR PROPER APPLICATION FOLLOW FCI APPLICATION SPECIFICATION GS-20-033. LEAD FREE SOLDER BALLS WILL NOT SOLDER PROPERLY IN A LEADED SOLDER PROCESS DUE TO A HIGHER REFLOW TEMPERATURE. LEADFREE PRODUCT IS THEREFORE NOT BACKWARDS COMPATIBLE WITH LEADED OR SOME SOLDERING APPLICATIONS. REFERENCE FCI APPLICATION SPECIFICATION.
- ⑧ THIS PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008. PRODUCT MEETING THIS DIRECTIVE IS IDENTIFIED IN THE CODE NUMBER MARKED ON EACH PART BY HAVING AN "X" IN THE SEVENTH CHARACTER POSTION.

spec ref	*	dr	Bill Lin	2010/02/02	projection 	mm 	size	A4	scale	1:10		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Nickor Zuo	2011/06/09			ecn no	ELX-DG-003943-1				
ASME Y14.5		chr	Alex Cao	2011/06/24				rel level	Released			
-		appr	Pei-Ming Zheng	2011/06/27	product family	GIG-Array						
surface	✓	linear	0.X	±0.30	FCj	title	GIG-Array		dwg no	55740	rev	G
-			0.XX	±0.10			5mm RECP. ASSY. 200 SIG. POS.					
-			0.XXX	±0.05								
-	angular	0°	±2°	www.fci.com	cat. no.	*	Product - Customer Drw		sheet 5 of 5			

