

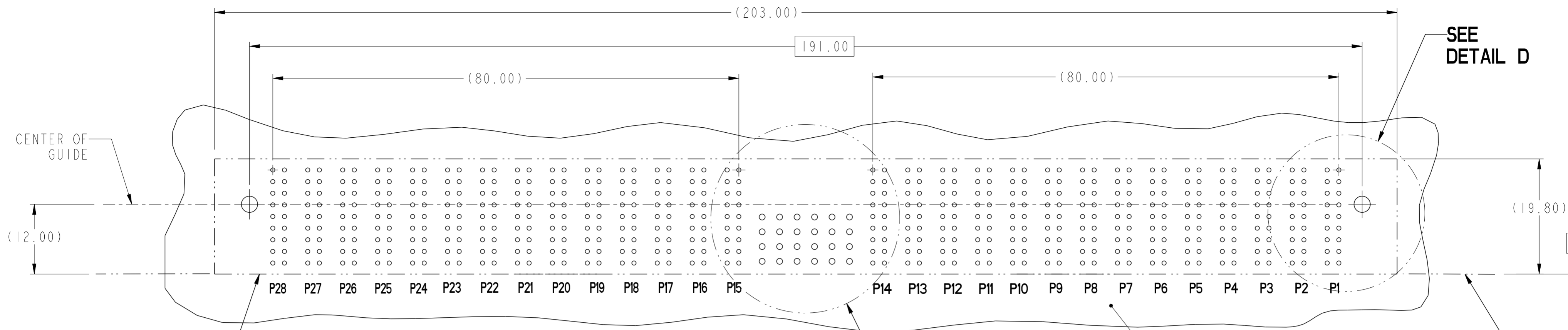
Copyright FCI

spec ref	-	dr	NotFound DuWa	2010/04/28	projection	MM	size	A2	scale	1:1											
tolerance std	ASME Y14.5	eng	De-Ming Lu	2014/12/28			ecn no	ELX-DG-19849-1	rel level	Released											
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	product family							HCI										
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td><math>\pm 0.5</math></td> </tr> <tr> <td></td> <td>0.XX</td> <td><math>\pm 0.25</math></td> </tr> <tr> <td></td> <td>0.XXX</td> <td><math>\pm 0.10</math></td> </tr> <tr> <td>angular</td> <td>0°</td> <td><math>\pm 2^\circ</math></td> </tr> </table>	linear	0.X	$\pm 0.5$								0.XX	$\pm 0.25$		0.XXX	$\pm 0.10$	angular	0°	$\pm 2^\circ$	apppr	Pei-Ming Zheng
linear	0.X	$\pm 0.5$																			
	0.XX	$\pm 0.25$																			
	0.XXX	$\pm 0.10$																			
angular	0°	$\pm 2^\circ$																			
				<b>VERT RECPT 14DC+24S+14DC</b> HCI POWER CONNECTOR		title HCI POWER CONNECTOR	dwg no 10084759	rev B													

PDS: Rev :B

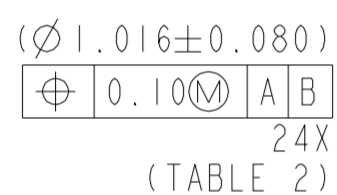
STATUS:Released

Printed: Dec 30, 2014



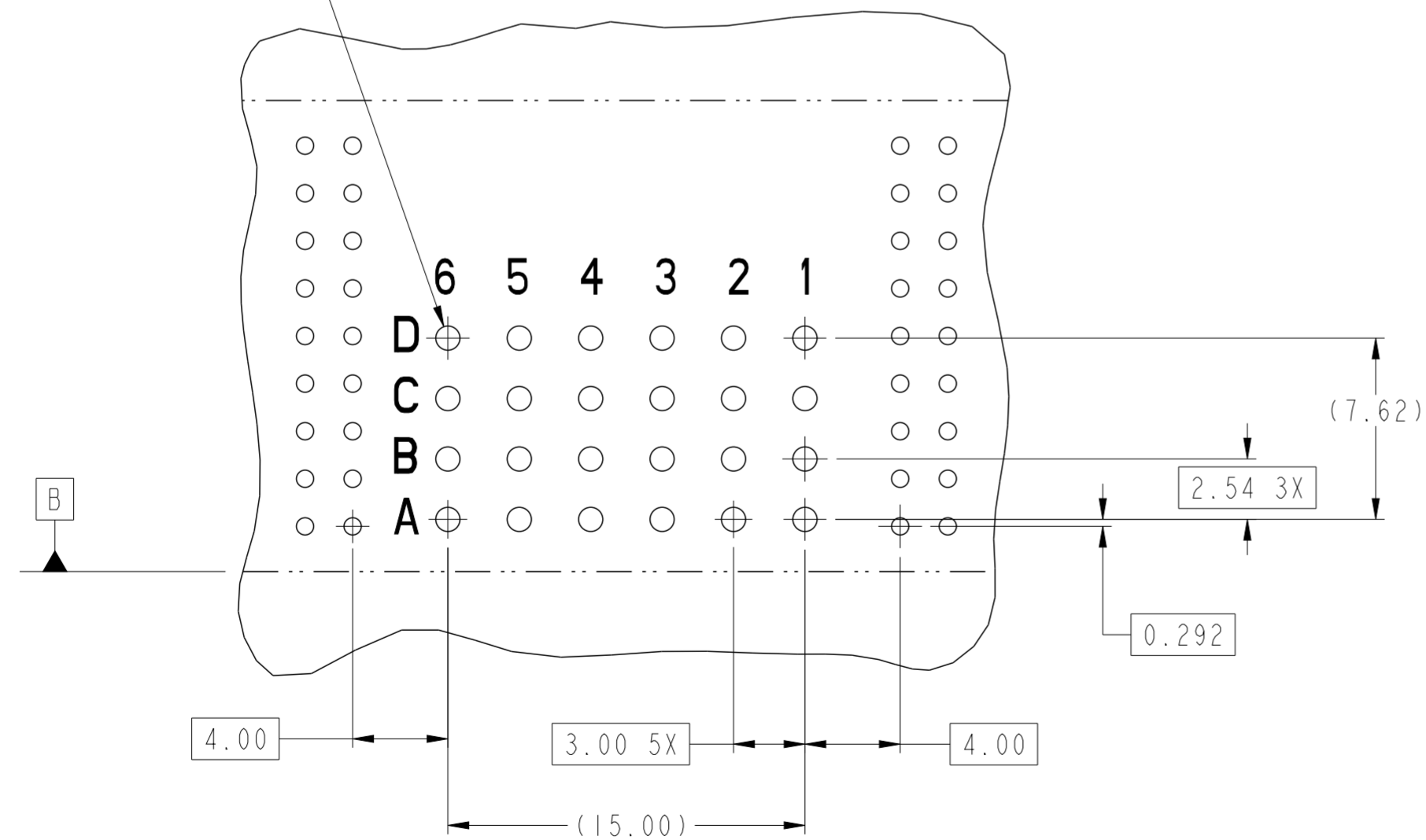
**RECOMMENDED PCB LAYOUT  
COMPONENT SIDE**

NOTE 6

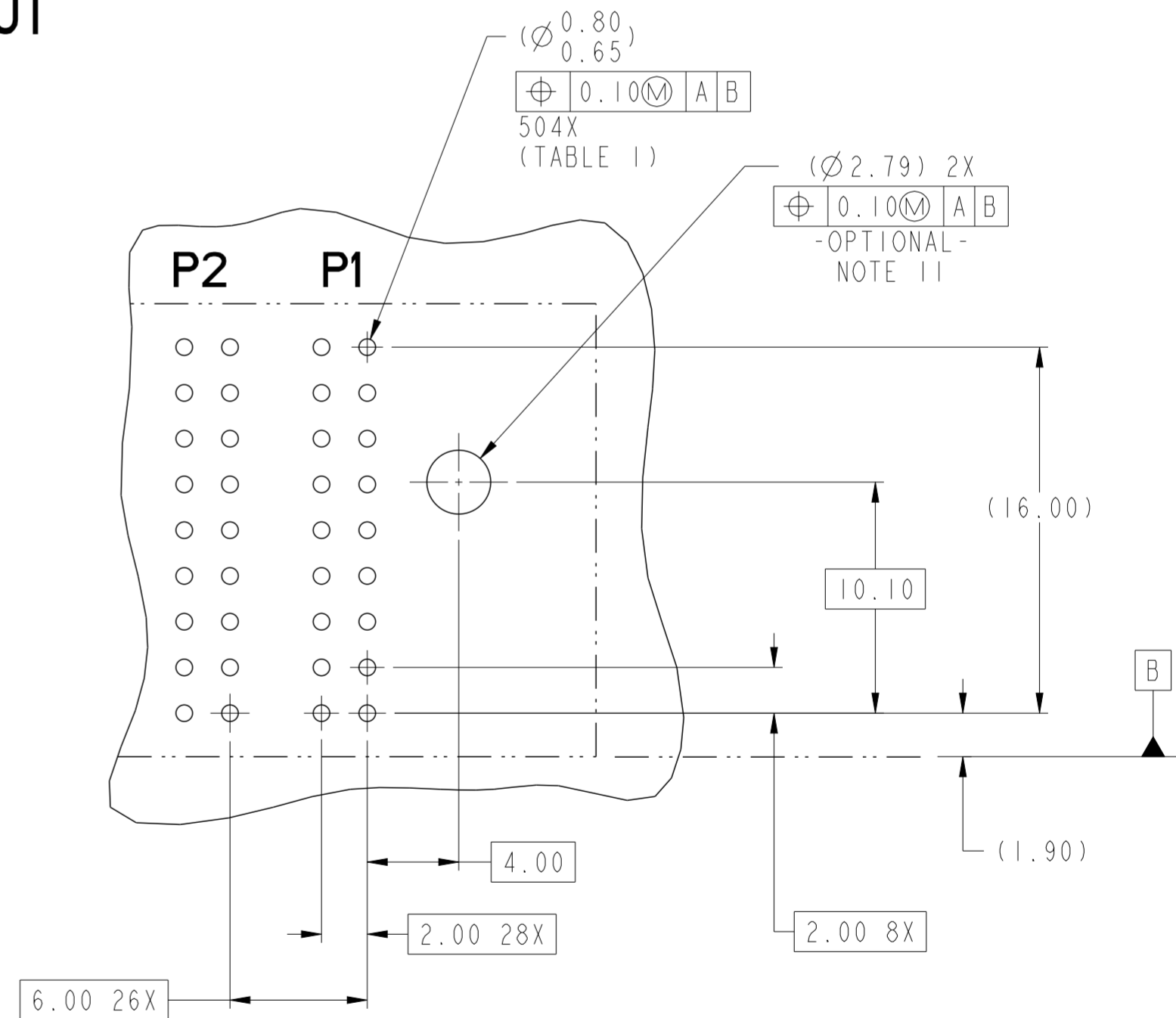


-A-  
OPPOSITE  
SURFACE

TOP SURFACE OF  
DAUGHTER CARD



**DETAIL E  
SCALE 4:1**



**DETAIL D  
SCALE 4:1**

dr	Not Found DuWa	2010/04/28	projection	MM	size	A2	scale	4:1
eng	De-Ming Lu	2014/12/28			ecn no	ELX-DG-19849-1	rel level	Released
chr	-	-						
appr	Pei-Ming Zheng	2014/12/29	product family	-	rel level	-	Blue	Released
		<b>TITLE</b> VERT RECPT 14DC+24S+14DC HCI POWER CONNECTOR		<b>dwg no</b> 10084759		<b>rev</b> B		<b>www.fci.com</b>
cat. no.			Product - Customer Draw			sheet 2 of 4		

A

A

B

B

C

C

D

D

E

E

F

F

TOP LAYER DESCRIPTION

TABLE 1 (HCI POWER)  
PLATED THROUGH-HOLE REQUIREMENTS

TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	0.005 - 0.015	--	--	--	--	0.65 - 0.80
IMMERSION TIN	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	0.9 - 1.5um	--	0.70 - 0.80
IMMERSION SILVER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	0.15 - 0.65um	0.70 - 0.80
COPPER (SEE NOTE 9)	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	--	0.70 - 0.80
GOLD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	0.003 - 0.007	FLASH UP TO 0.0002	--	--	0.69 - 0.80

TOP LAYER DESCRIPTION

TABLE 2 (HPC SIGNALS)  
PLATED THROUGH-HOLE REQUIREMENTS

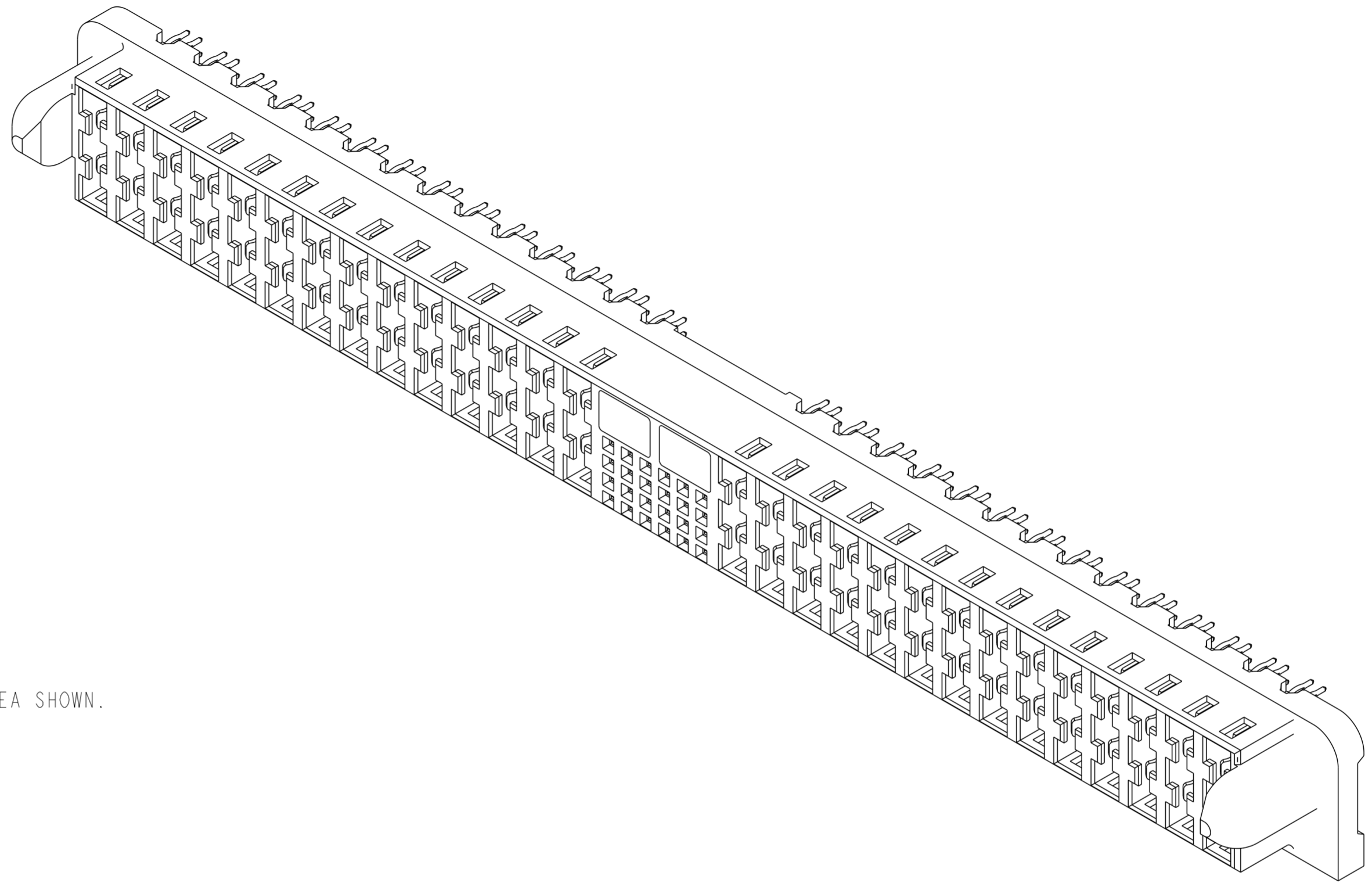
TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	1.125-1.175 ( $\varnothing .0453 \pm .0010$ )	0.025-0.050	0.005-0.015	--	--	--	--	0.94 - 1.10 ( $\varnothing .040 \pm .003$ )
IMMERSION TIN			--	--	--	--	--	
IMMERSION SILVER			--	--	--	--	--	
COPPER (SEE NOTE 9)			--	--	--	--	--	
GOLD			--	--	--	--	--	



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dr	NotFound DuWa	2010/04/28	projection	MM	size	A2	scale	1:1
eng	De-Ming Lu	2014/12/28			ecn no	ELX-DG-19849-1	rel level	Released
chr	-	-						
appr	Pei-Ming Zheng	2014/12/29	product family	-	cat. no.	-	Product - Customer Drw	sheet 3 of 4
		title VERT RECPT 14DC+24S+14DC HCI POWER CONNECTOR		dwg no 10084759	rev B			

PART NUMBER	M2.5SCREW NOTE 11	TAIL PLATING	TAIL TYPE
10084759-001	OPTIONAL	SnPb	PRESS-FIT
10084759-001LF	OPTIONAL	Sn	PRESS-FIT



NOTES:

1. CONNECTOR MATERIALS:  
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK  
UL 94V-0 COMPLIANT  
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
2. CONTACT FINISH (ref GS-12-380 SECTION 5.2)
3. PRODUCT SPECIFICATION: GS-12-380.
4. APPLICATION SPECIFICATION: GS-20-070.
5. PRODUCT MARKING (PRODUCT NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN.
6. MINIMUM NOMINAL PCB THICKNESS: 1.6mm
7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073.
8. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C  
PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,  
OR VAPOR PHASE REFLOW OVEN.
9. COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE  
NO MORE THAN 0.003 LESS THAN OTHER AREAS.
10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.
11. RECOMMENDED RETENTION TO PCB:  
Ø0.110[2.79] THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX  
HEAD Ø0.177[4.50].  
RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.  
RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 lbf-in (2300-5760 gf-cm).

dr	Not Found DuWa	2010/04/28	projection	MM	size	A2	scale	3:1
eng	De-Ming Lu	2014/12/28			ecn no	ELX-DG-19849-1		
chr	-	rel level			Released			
appr	Pei-Ming Zheng	2014/12/29	product family	HCI	rel level	Released		
		<b>VERT RECPT 14DC+24S+14DC</b>		dwg no	10084759		rev	B
www.fci.com		cat. no.	-		Product - Customer Drw		sheet 4 of 4	