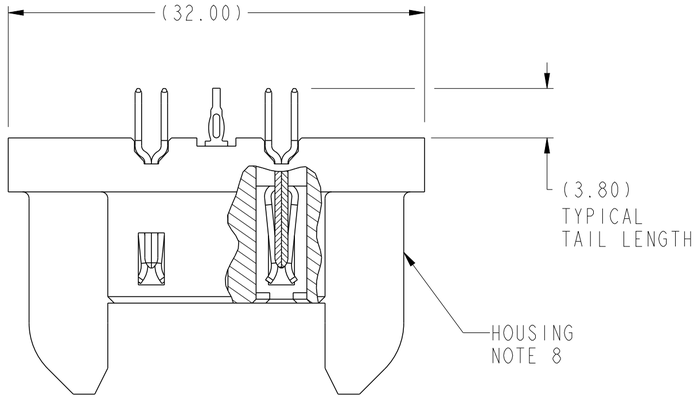
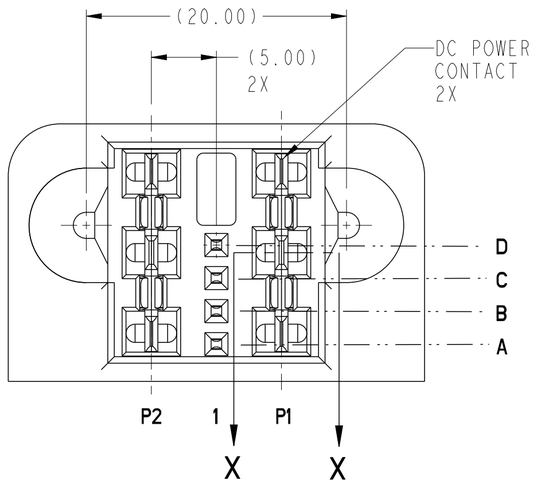
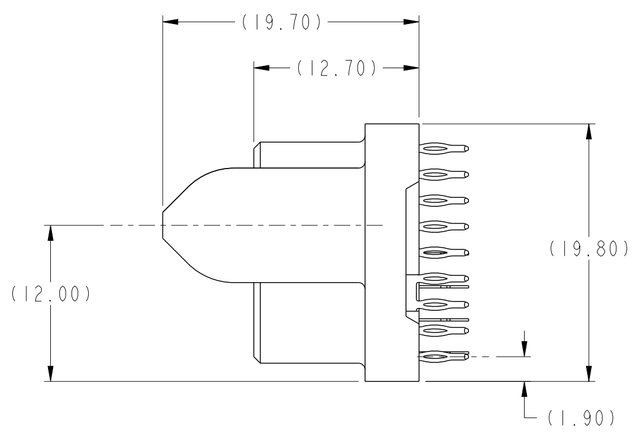


SECTION X-X





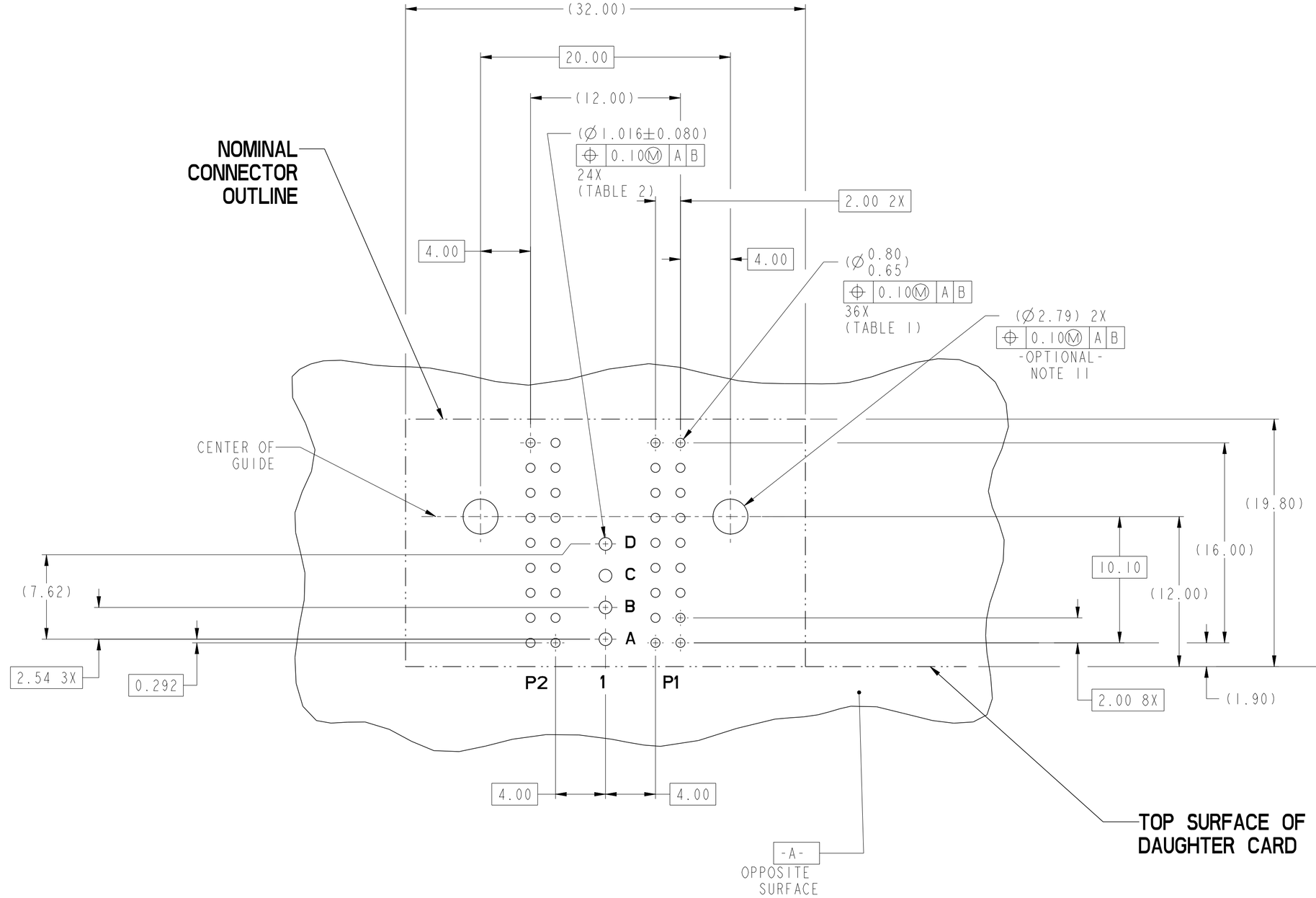
spec ref	*			dr	DuWa	2010/04/28	projection	MM	size A2 / scale 3:1
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Helen Zhang	2012/07/23			
				chr	-	-			ecn no -
				appr	Pei-Ming Zheng	2012/07/23	product family HCI		rel level Released
surface - ASME Y14.5	linear	0.X	±0.5	FCI	title	VERT RECPT ASSY IP-4S-IP	dwg no	10108306	rev A
		0.XX	±0.25			HCI POWER CONNECTOR			
		0.XXX	±0.10	www.fci.com	cat. no.	-	Product - Customer Drw		sheet 1 of 4
	angular	0°	±2°						

Pro/E File - REV C - 2009-06-09

PDS: Rev :A

STATUS: Released

Printed: Jul 23, 2012



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTE 6

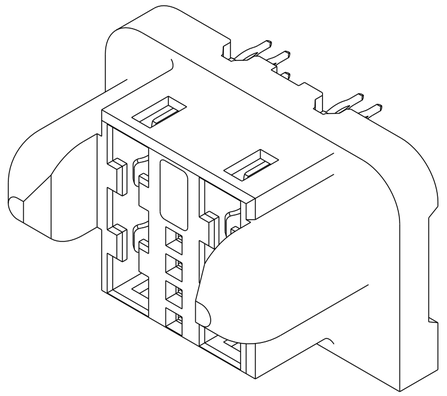
spec ref	*		dr	DuWa	2010/04/28	projection	MM	size A2	scale 3:1
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Helen Zhang	2012/07/23				
			chr	-	-			ecn no	-
			appr	Pei-Ming Zheng	2012/07/23	product family	HCI	rel level	Released
surface - ASME Y14.5	linear	0.X ±0.5	FCI	title	VERT RECPT ASSY IP-4S-IP			dwg no 10108306	rev A
		0.XX ±0.25			HCI POWER CONNECTOR				
		0.XXX ±0.10	www.fci.com	cat. no.	-	Product - Customer Drw		sheet 2 of 4	
	angular	0° ±2°							

TOP LAYER DESCRIPTION	TABLE 1 (HCI POWER) PLATED THROUGH-HOLE REQUIREMENTS							
	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			
	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	1.125-1.175 (Ø.0453±.0010)	0.025-0.050	0.005-0.015	0.94 - 1.10 (Ø.040±.003)

spec ref	*		dr	DuWa	2010/04/28	projection	MM
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Helen Zhang	2012/07/23		
			chr	-	-	size A2	scale 3:1
			appr	Pei-Ming Zheng	2012/07/23	ecn no	-
surface - ASME Y14.5	linear	0.X ±0.5	FCI www.fci.com			product family HCI	rel level Released
		0.XX ±0.25	title	VERT RECPT ASSY IP-4S-IP		dwg no 10108306	rev A
		0.XXX ±0.10		HCI POWER CONNECTOR			
	angular	0° ±2°	www.fci.com	cat. no. -	Product - Customer Drw		sheet 3 of 4

PART NUMBER	M2.5 SCREW NOTE 11	TAIL PLATING	TAIL TYPE
10108306-001	OPTIONAL	SnPb	PRESS-FIT
10108306-001LF	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. (IN PROGRESS)

4. APPLICATION SPECIFICATION: GS-20-070. (IN PROGRESS)

5. MINIMUM NOMINAL PCB THICKNESS: 1.6mm

6. PACKAGING MEETS FCI SPECIFICATION GS-14-1073.

7. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C
   PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,
   OR VAPOR PHASE REFLOW OVEN.

8. COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE
   NO MORE THAN 0.003 LESS THAN OTHER AREAS.

9. ALL HOLE SIZES ARE FINISHED HOLE SIZES.

10. RECOMMENDED RETENTION TO PCB:
    ∅0.110[2.79] THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX
    HEAD ∅0.177[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).

spec ref	*			dr	DuWa	2010/04/28	projection	MM	size A2 / scale 3:1
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Helen Zhang	2012/07/23			
				chr	-	-			ecn no -
				appr	Pei-Ming Zheng	2012/07/23	product family	HCI	rel level Released
surface - ASME Y14.5	linear	0.X	±0.5	FCI	title	VERT RECPT ASSY IP-4S-IP	dwg no	10108306	rev A
		0.XX	±0.25			HCI POWER CONNECTOR			
		0.XXX	±0.10						
	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw		sheet 4 of 4