

Amphenol FCI

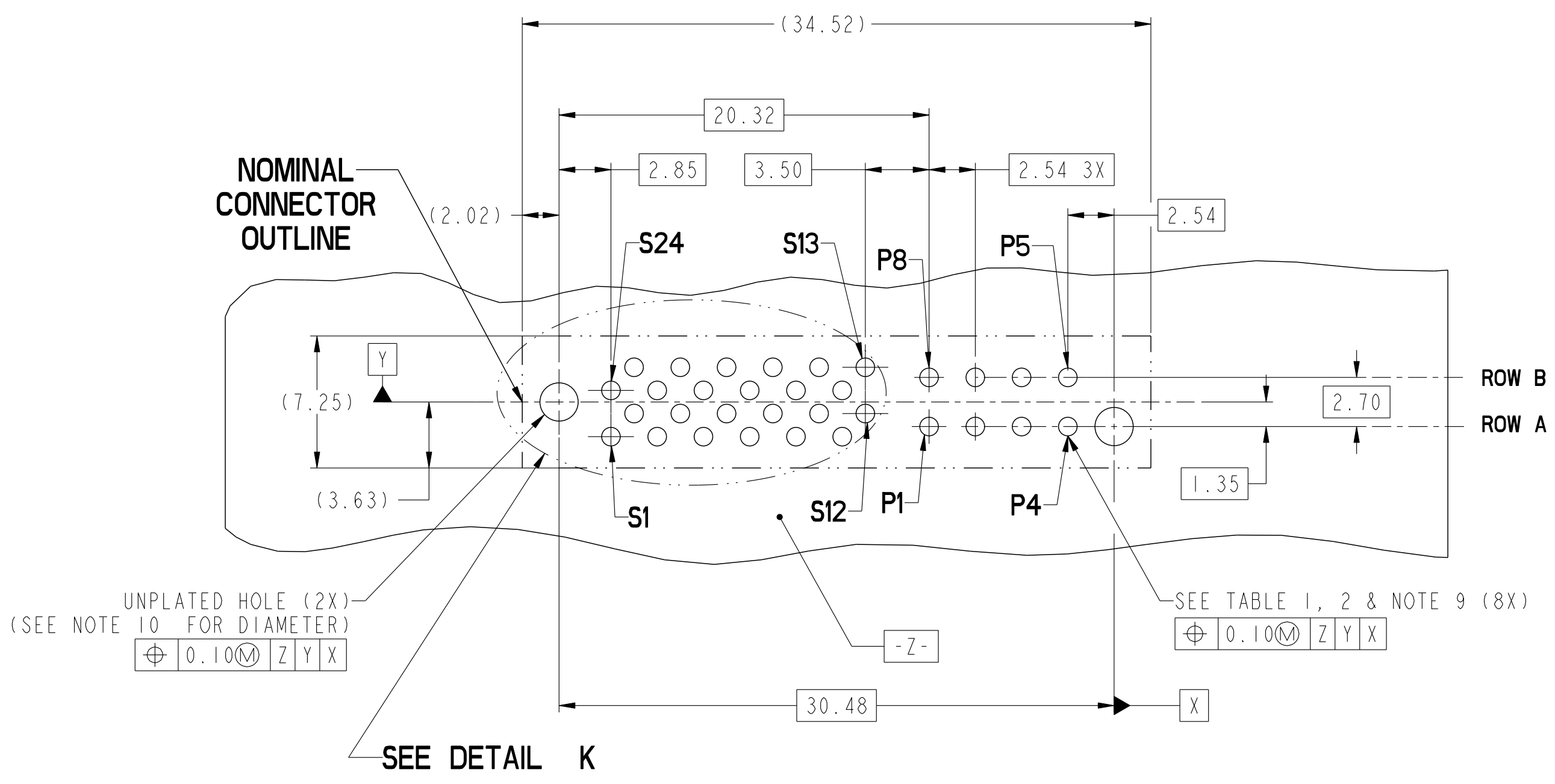
© 2016 AFCI

spec ref	-	dr	Wei-Long Zhang	2011/11/08	projection	MM	size	A2	scale	4:1	
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/05			ecn no	ELX-DG-24036-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20			rel level	Released			
surface	ASME Y14.5	appr	Pei-Ming Zheng	2016/05/24			product family	HPCE			
linear	0.X ±0.3	Amphenol FCI		VERT RECT (24S+8P)		dwg no	10119449			rev	B
angular	0° ±2°			HIGH POWER CARD EDGE		cat. no.	Product - Customer Drw			sheet 1 of 4	

PDS: Rev :B

STATUS:Released

Printed: May 27, 2016



UNPLATED HOLE (2X)  
(SEE NOTE 10 FOR DIAMETER)

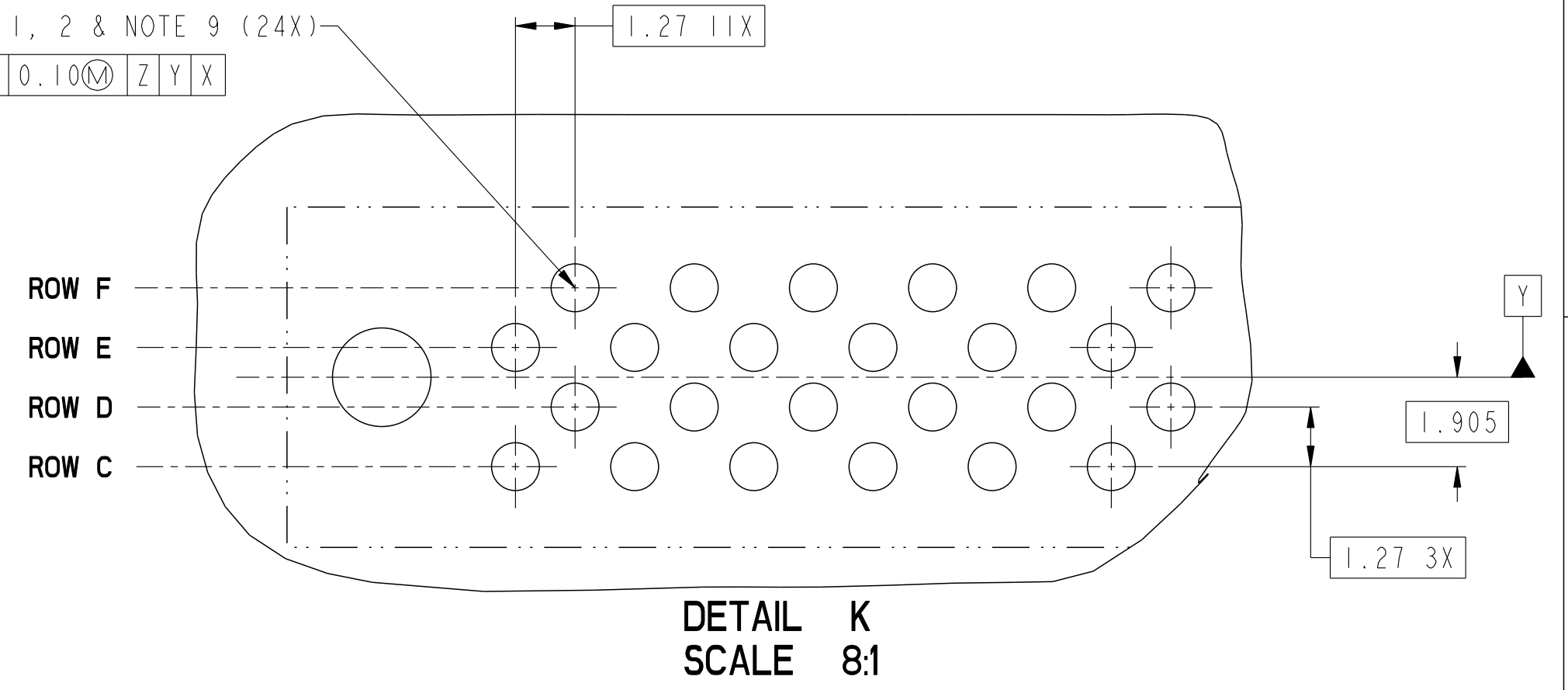
$\varnothing$	0.10	M	Z	Y	X
---------------	------	---	---	---	---

SEE TABLE 1, 2 & NOTE 9 (8X)

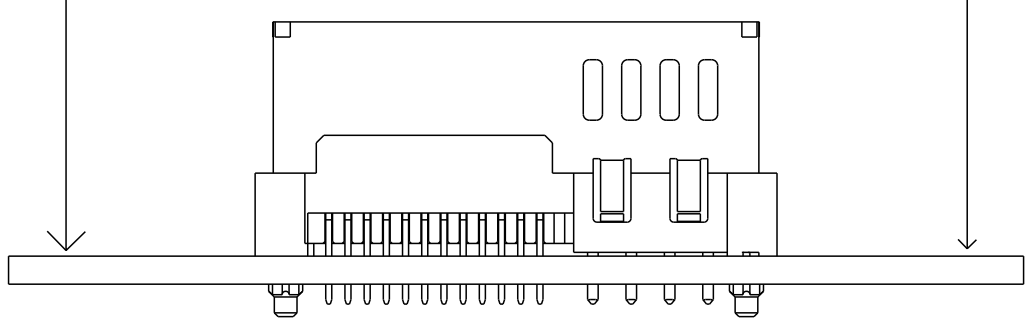
$\varnothing$	0.10	M	Z	Y	X
---------------	------	---	---	---	---

SEE TABLE 1, 2 & NOTE 9 (24X)

$\varnothing$	0.10	M	Z	Y	X
---------------	------	---	---	---	---



RECOMMENDED  
PCB LAYOUT VIEWED  
FROM CONNECTOR SIDE



spec ref	-	dr	Wei-Long Zhang	2011/11/08	projection	MM	size	A2	scale	1:1
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/05	chr	Terris Liu	2016/05/20	ecn no	ELX-DG-24036-1	
TOLERANCES UNLESS OTHERWISE SPECIFIED		appr	Pei-Ming Zheng	2016/05/24	product family	-	rel level	Released		
surface	linear	0.X	±0.3	Amphenol FCI	VERT RECT (24S+8P)		cat. no.	Product - Customer Drw	sheet 2 of 4	rev B
		0.XX	±0.10		HIGH POWER CARD EDGE					
		0.XXX	±0.050							
ASME Y14.5	angular	0°	±2°							

PDS: Rev :B

STATUS:Released

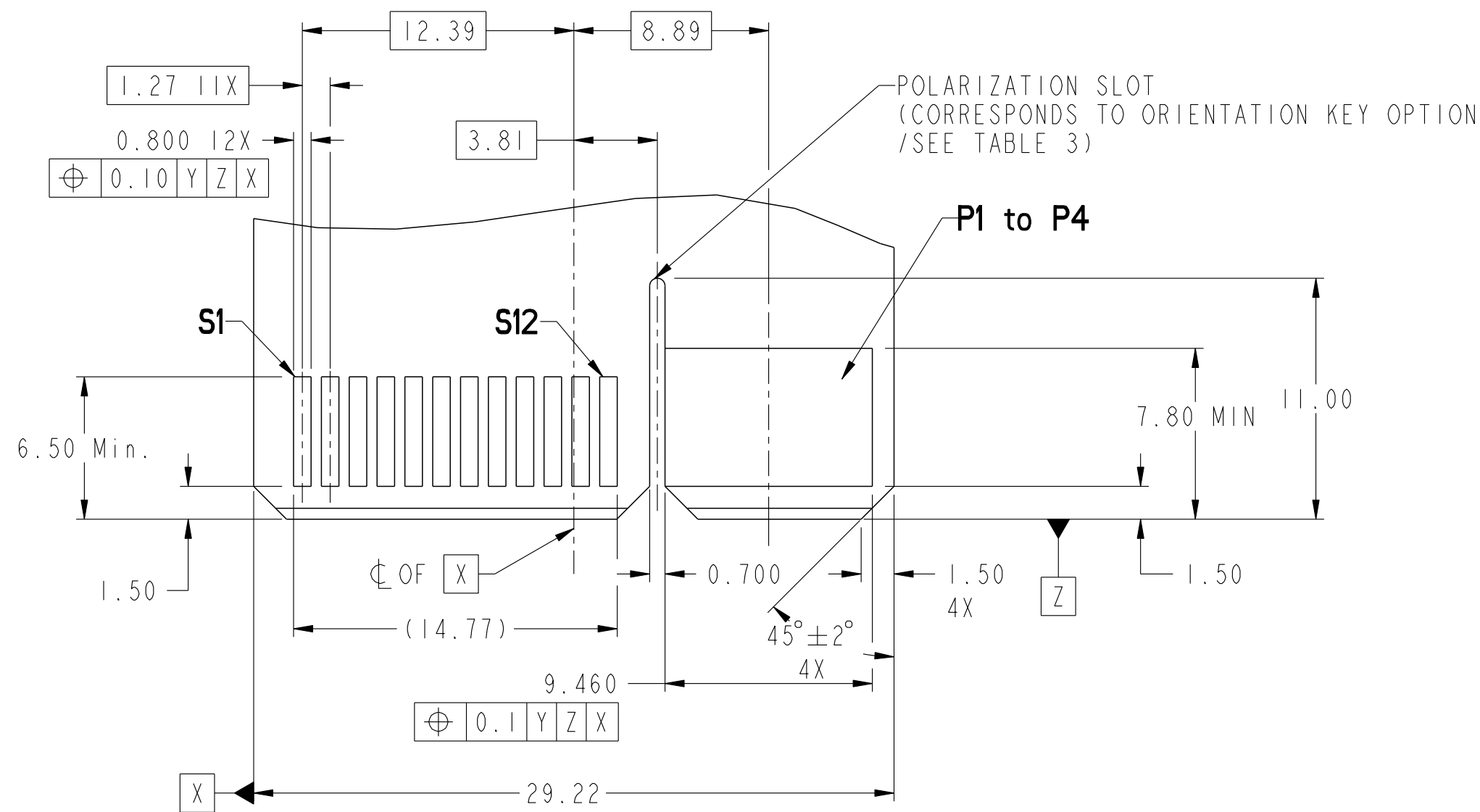
Printed: May 27, 2016

Amphenol  
FCI

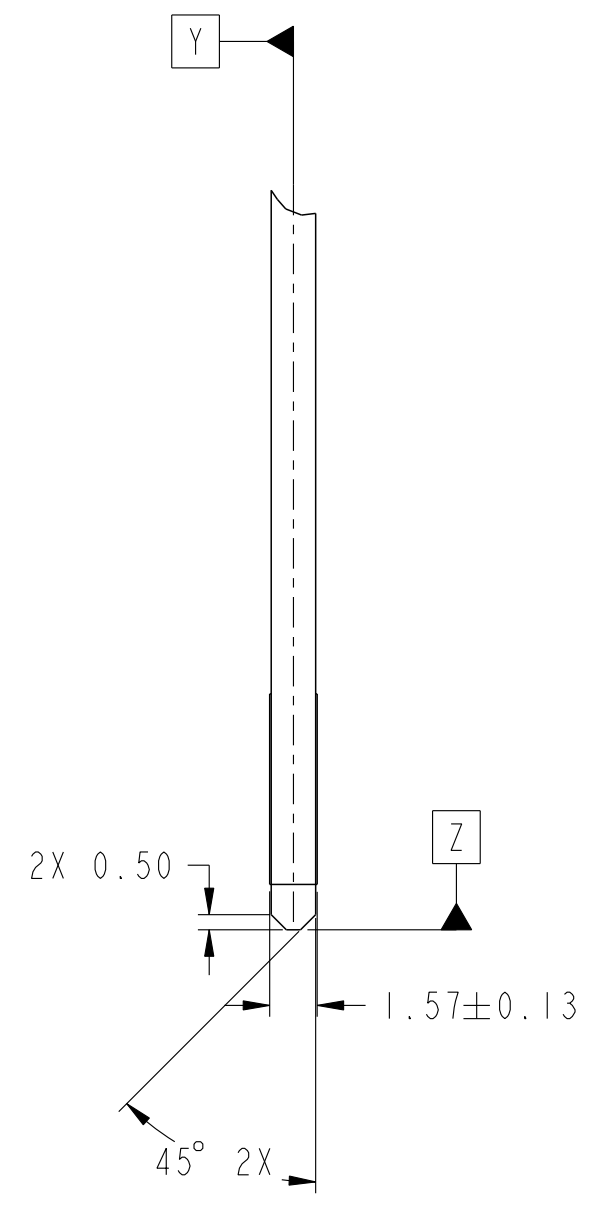
© 2016 APCI

CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 1 (HPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	TIN-LEAD	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	0.005 - 0.015	--	0.94 - 1.10
	IMMERSION TIN	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.94 - 1.10
	COPPER (SEE NOTE 8)	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	--	0.94 - 1.10

CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 2 (HPCE / PRESS-FIT TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	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
	COPPER (SEE NOTE 8)	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80



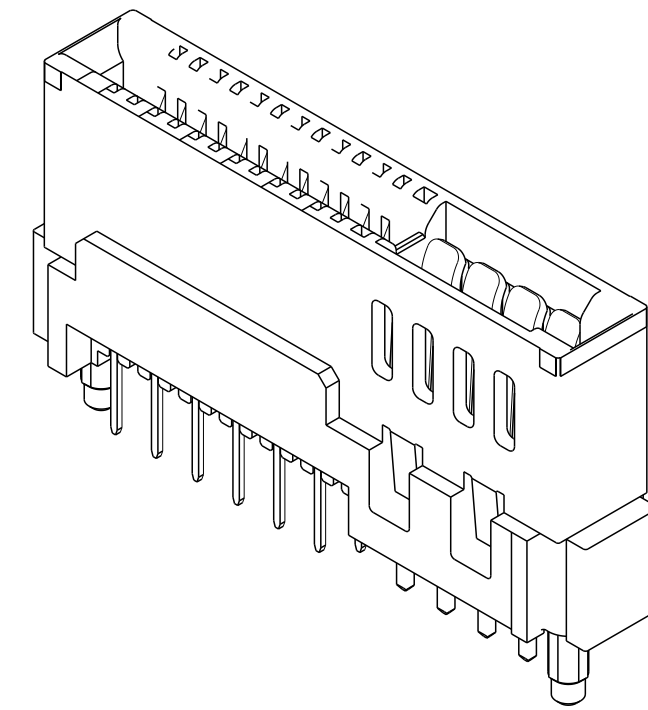
**RECOMMENDED MATING BOARD FOOTPRINT**



spec ref	-	dr	Wei-Long Zhang	2011/11/08	projection	MM	size	A2	scale	1:1	
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/05			ecn no	ELX-DG-24036-1	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20							
		appr	Pei-Ming Zheng	2016/05/24							
surface	ASME Y14.5	linear	0.X	±0.3	<b>Amphenol FCI</b>		product family	VERT RECT (24S+8P)		cat. no. - Product - Customer Drw	sheet 3 of 4
		angular	0°	±2°	HIGH POWER CARD EDGE		dwg no	10119449			

HPCE PART NUMBER (TABLE 3)

PART NUMBER	TAIL TYPE	ORIENTATION KEY	DIM "A" TYPICAL TAIL LENGTH	DIM "B" RECOMMENDED BOARD THICKNESS	SPECIFIED APPLICATION TOOL
10119449-001LF	SOLDER	YES	3.17 ±0.25	1.59 - 2.38	NO
10119449-002LF	SOLDER	NO			
10119449-003LF	PRESS-FIT	YES	3.17 ±0.25	1.57 MIN.	YES NOTE 11
10119449-004LF	PRESS-FIT	NO			



NOTES:

1. CONNECTOR MATERIALS:

HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK  
 UL 94V-0 COMPLIANT  
 CONTACTS: HIGH PERFORMANCE COPPER ALLOY.

2. CONTACT FINISH REF. GS-12-604 SECTION 5.2.

3. PRODUCT SPECIFICATION: GS-12-604.

4. APPLICATION SPECIFICATION: GS-20-128.

5. PRODUCT MARKING ON HOUSING IN AREA SHOWN MEETS AFCI SPECIFICATION: GS-24-007.

6. PACKAGING MEETS FCI SPECIFICATION GS-14-937.

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. MOUNTING HOLES ARE UNPLATED  
 Ø 2.40 +/- 0.1 FOR PRESS-FIT TAILS  
 Ø 2.18 +/- 0.03 FOR SOLDER TAILS

11. APPLICATION TOOL DRAWING: 10119453.

12. A SYMBOL  $\triangle$  WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

spec ref	-	dr	Wei-Long Zhang	2011/11/08	projection	MM	size	A2	scale	4:1
tolerance std	-	eng	Sunny2 Liu	2016/05/05			ecn no	ELX-DG-24036-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Terris Liu	2016/05/20						
surface	-	appr	Pei-Ming Zheng	2016/05/24						
ASME Y14.5	linear	0.X	±0.3		VERT RECT (24S+8P)		cat. no. - Product - Customer Drw	sheet 4 of 4	rev B	
		0.XX	±0.10		HIGH POWER CARD EDGE					
	angular	0°	±2°		dwg no 10119449					