

spec ref	-	dr	Sunny2 Liu	2016/05/09	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/18			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/18						
surface	linear	0.X	±0.5		product family		HPCE	10139585 8HP2LP24S	rev A	
		0.XX	±0.25		cat. no.		-			
	angular	0°	±2°		Product - Customer Drw		sheet 1 of 4			

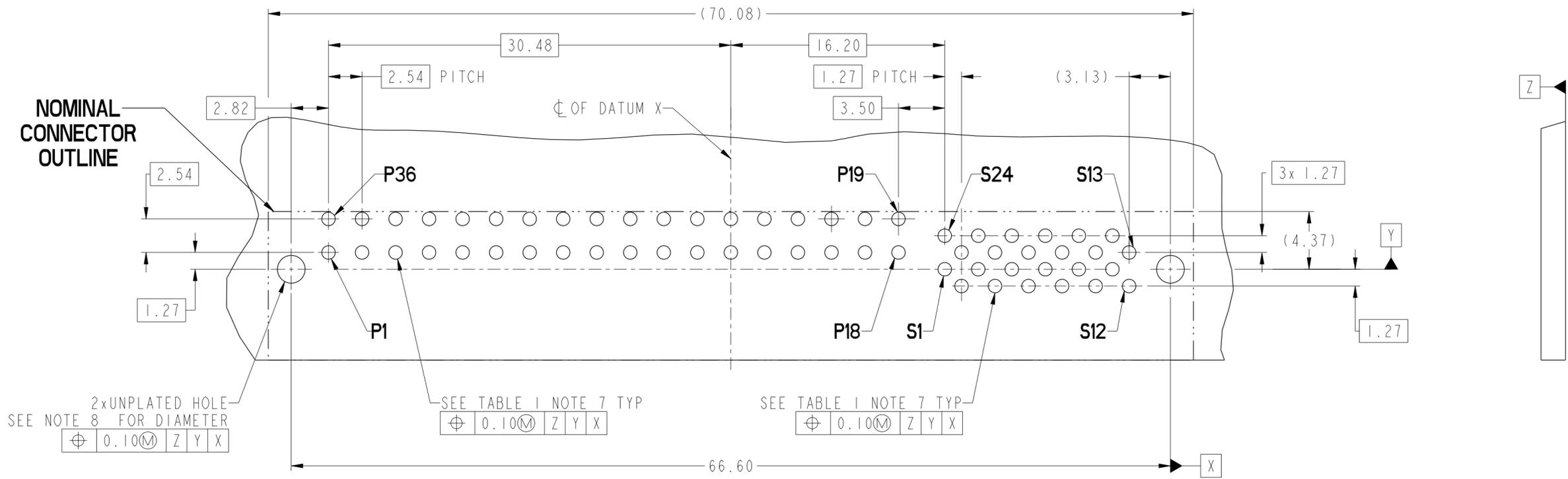
PDS: Rev :A

STATUS:Released

Printed: May 18, 2016

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	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	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	--	0.94 - 1.10

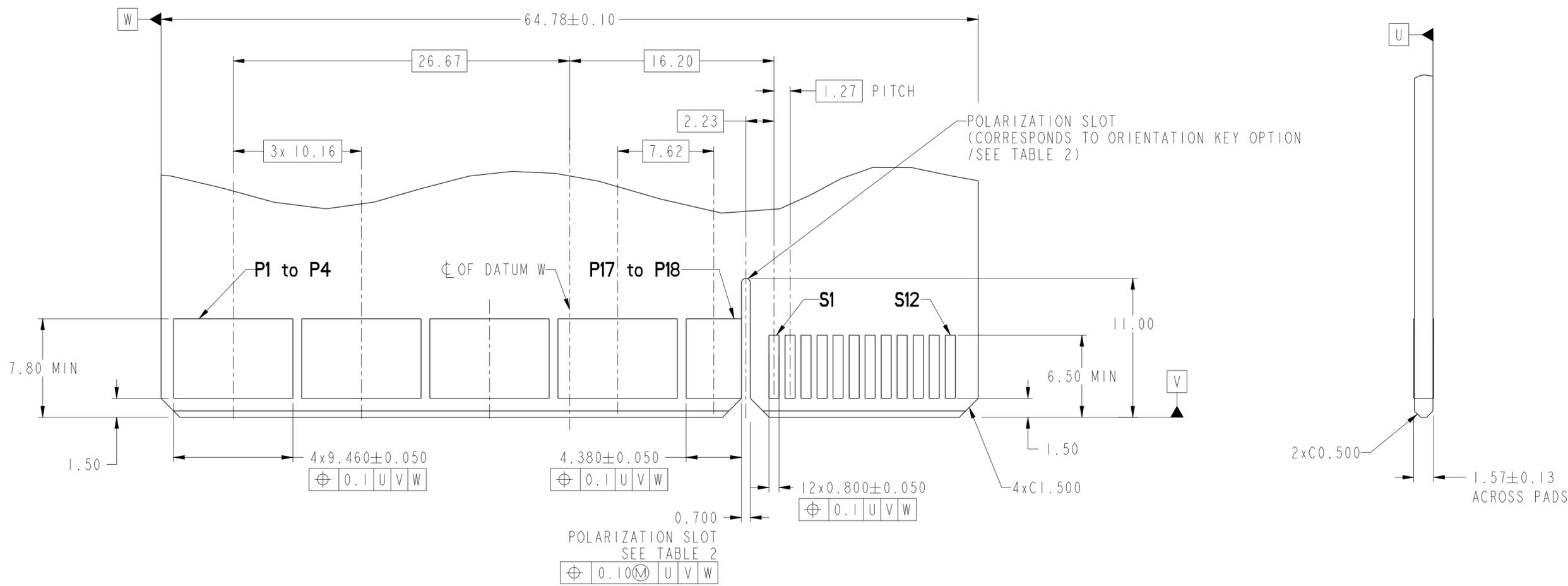
CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 1 (HPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
SIGNAL	TIN-LEAD	0.93-1.02 (1.00 DRILL)	0.025 - 0.050	0.005 - 0.015	--	0.85 - 0.95
	IMMERSION TIN	0.93-1.02 (1.00 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.85 - 0.95
	COPPER	0.93-1.02 (1.00 DRILL)	0.025 - 0.050	--	--	0.85 - 0.95



spec ref	-	dr	Sunny2 Liu	2016/05/09	projection	MM	size	A2	scale	4:1			
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/18			ecn no	-	Amphenol FCI	title	HPCE RA RECT 8HP2LP24S		
surface	linear	chr	Terris Liu	2016/05/18			product family	-		rel level	Released	cat. no.	-
	angular	appr	Pei-Ming Zheng	2016/05/18			Product - Customer Drw	sheet 2 of 4		rev	A		

Amphenol FCI

© 2016 APCI

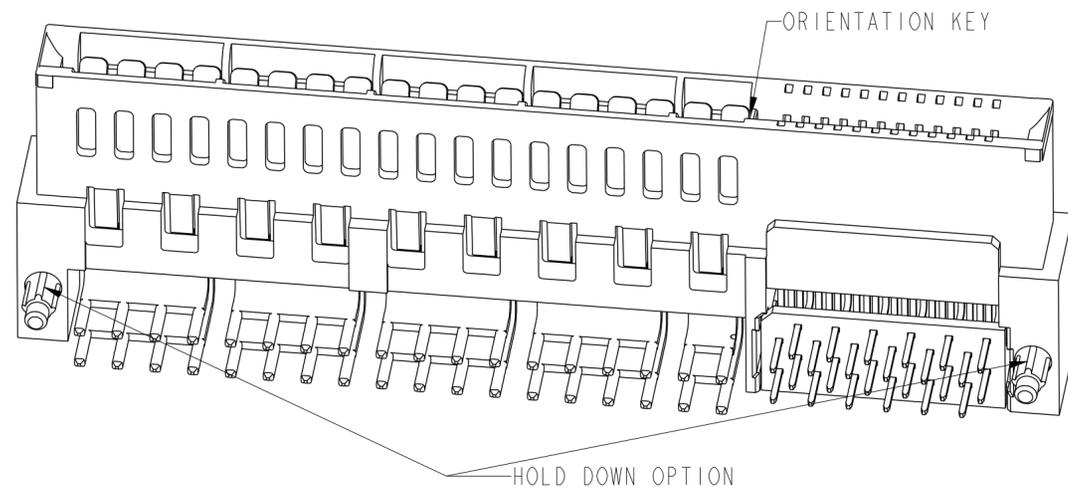


RECOMMENDED MATING BOARD FOOTPRINT

spec ref	-	dr	Sunny2 Liu	2016/05/09	projection	MM	size	A2	scale	4:1	
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/18			ecn no	-	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/18							
		appr	Pei-Ming Zheng	2016/05/18							
surface	ASME Y14.5	linear	0.X	±0.5			title HPCE RA RECT 8HP2LP24S		cat. no. -	Product - Customer Drw	sheet 3 of 4
		angular	0°	±2°	title HPCE RA RECT 8HP2LP24S		dwg no 10139585	rev A			

HPCE PART NUMBER (TABLE 2)

PART NUMBER	TAIL TYPE	HOLD-DOWN OPTION	ORIENTATION KEY	DIM A TYP TAIL LENGTH
10139585-001LF	SOLDER TAIL	NO	YES	3.25±0.25
10139585-002LF			NO	
10139585-003LF		YES	YES	
10139585-004LF			NO	
10139585-005LF		NO	YES	4.05±0.25
10139585-006LF			NO	
10139585-007LF		YES	YES	
10139585-008LF			NO	
10139585-009LF		NO	YES	4.85±0.25
10139585-010LF			NO	
10139585-011LF			YES	
10139585-012LF			NO	



NOTES:

- CONNECTOR MATERIALS:
 HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
 UL 94V-0 COMPLIANT
 CONTACTS: HIGH PERFORMANCE COPPER ALLOY.
- CONTACT FINISH REF. GS-12-604 SECTION 5.2.
- PRODUCT SPECIFICATION: GS-12-604.
- APPLICATION SPECIFICATION: GS-20-128.
- PRODUCT MARKING ON HOUSING IN AREA SHOWN MEETS AFCI SPECIFICATION: GS-24-007.
- PACKAGING MEETS FCI SPECIFICATION GS-14-937.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED
 \varnothing 2.18 +/- 0.03 FOR SOLDER TAILS

spec ref	-	dr	Sunny2 Liu	2016/05/09	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/18			ecn no	-	rel level	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/18			Released			
surface	linear	appr	Pei-Ming Zheng	2016/05/18	product family	HPCE	rel level	Released	cat. no.	Product - Customer Drw
ASME Y14.5	angular	0°	±2°	Amphenol FCI	title	HPCE RA RECT	8HP2LP24S	dwg no	10139585	rev
										A