

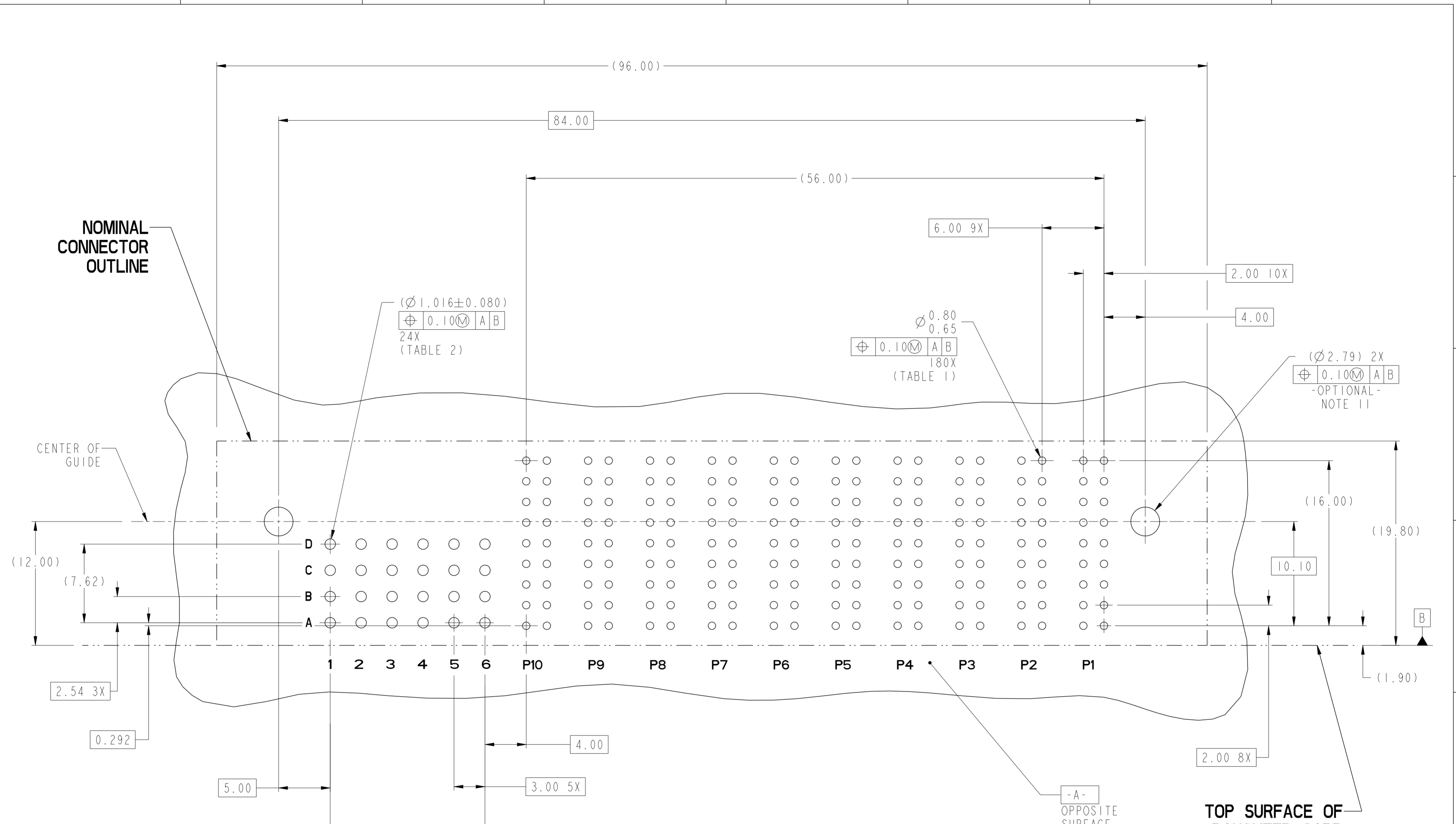
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spec ref	*	dr	NotFound DuWa	2010/03/18	projection	MM	size	A2	scale	3:1
tolerance std	ASME Y14.5	eng	De-Ming Lu	2014/12/29	chr	-	ecn no	ELX-DG-19849-1	rel level	Released
surface	✓	appr	Pei-Ming Zheng	2014/12/29	product family	-	rel level	Released	rev	D
ASME Y14.5	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 1 of 4	rev	D

PDS: Rev :D

STATUS:Released

Printed: Dec 30, 2014



**RECOMMENDED PCB LAYOUT  
COMPONENT SIDE**

NOTE 6

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dr	Not Found DuWa	2010/03/18	projection	MM	size	A2	scale	4:1
eng	De-Ming Lu	2014/12/29			ecn no	ELX-DG-19849-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2014/12/29	product family	-	rel level	Released		
		title VERT RECP ASSY 5DC-12S HCI POWER CONNECTOR			dwg no 10065127	rev D		
www.fci.com		cat. no.	-		Product - Customer Drw	sheet 2 of 4		

A

A

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

B

B

C

C

TOP LAYER DESCRIPTION

TABLE 2 (HPC SIGNALS)  
PLATED THROUGH-HOLE REQUIREMENTS

TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD 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 ( $\varnothing .040 \pm .003$ )

D

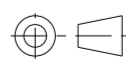
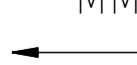

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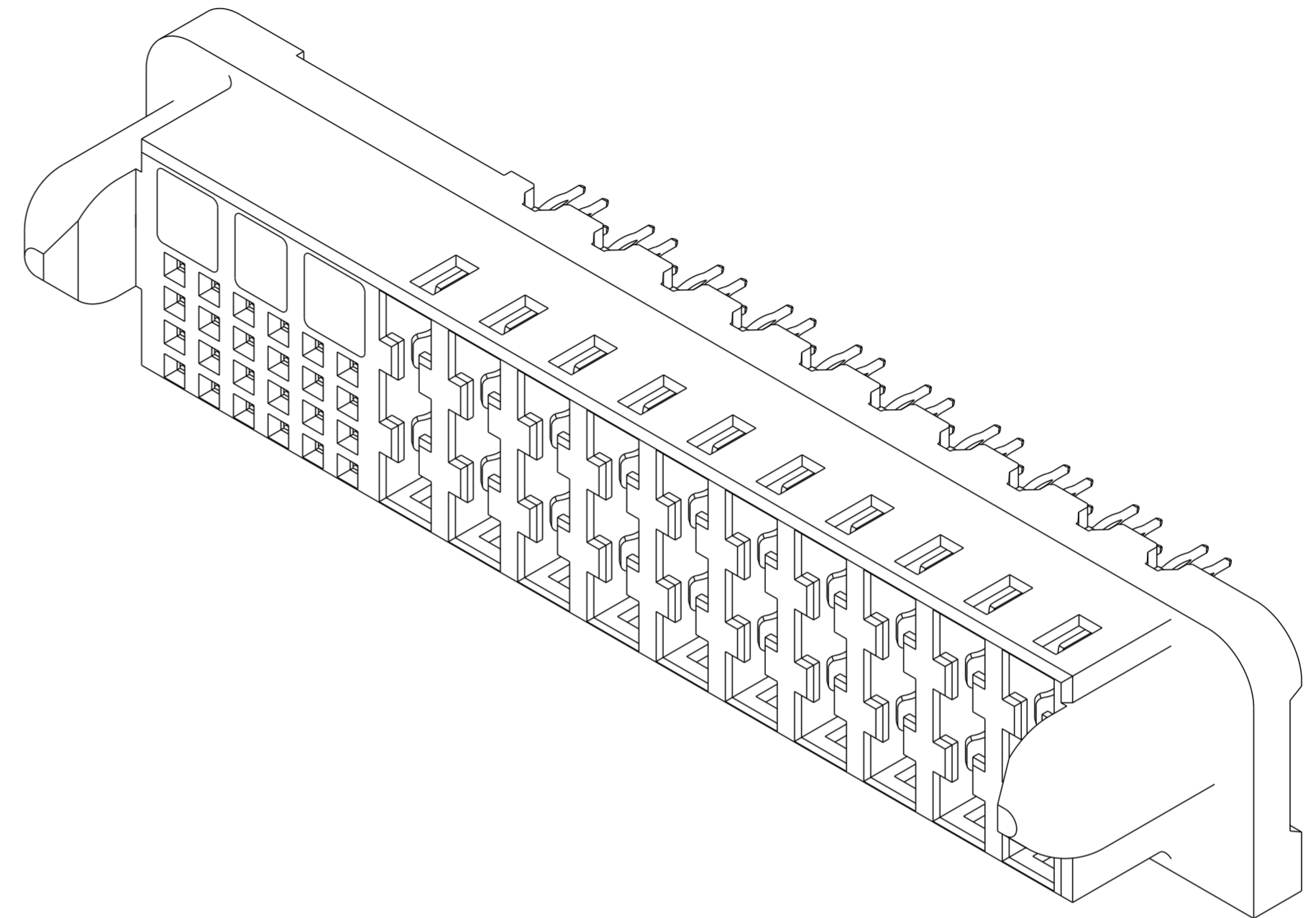
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dr	NotFound DuWa	2010/03/16	projection	MM	size	A2	scale	1:1
eng	De-Ming Lu	2014/12/29			ecn no	ELX-DG-19849-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2014/12/29	product family	-	cat. no.	10065127		
		title VERT RECP ASSY 5DC-12S HCI POWER CONNECTOR		dwg no 10065127	rev D		Product - Customer Drw	
www.fci.com		-		-		sheet 3 of 4		-

PART NUMBER	M2.5 SCREW NOTE 11	TAIL PLATING	TAIL TYPE
10065127-001	OPTIONAL	SnPb	PRESS-FIT
10065127-001LF	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).

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appr	Pei-Ming Zheng	2014/12/29	product family	-	cat. no.	10065127	rev	D
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