

spec ref	*	dr	De-Ming Lu	2015/01/22	projection	MM	size	A2	scale	3:1	
tolerance std	ISO 406 ISO 1101	eng	De-Ming Lu	2017/02/22			ecn no	-	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Fancy Zhang	2017/02/22							
surface	ISO 1302	appr	Pei-Ming Zheng	2017/02/22	product family	PWRMAX	rel level	Released	cat. no.	-	
linear	0.X ±0.5 0.XX ±0.25 0.XXX ±0.100	Amphenol FCI		title	4LP + 6HP + 24S		dwg no	10133137		rev	A
angular	0° ±2°	RIGHT ANGLE PLUG, SOLDER TAILS		Product - Customer Drw		sheet 1 of 6					

PDS: Rev :A

STATUS:Released

Printed: Feb 22, 2017

1 2 3 4 5 6 7 8

A

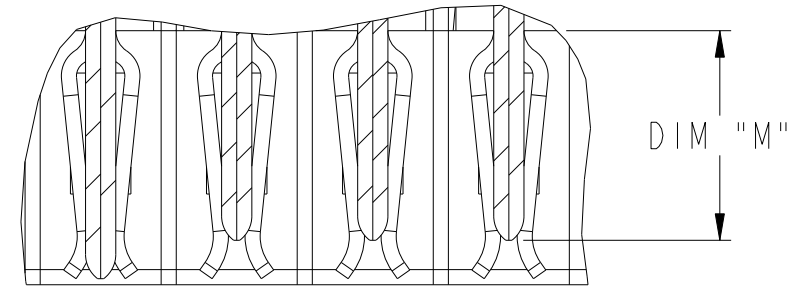
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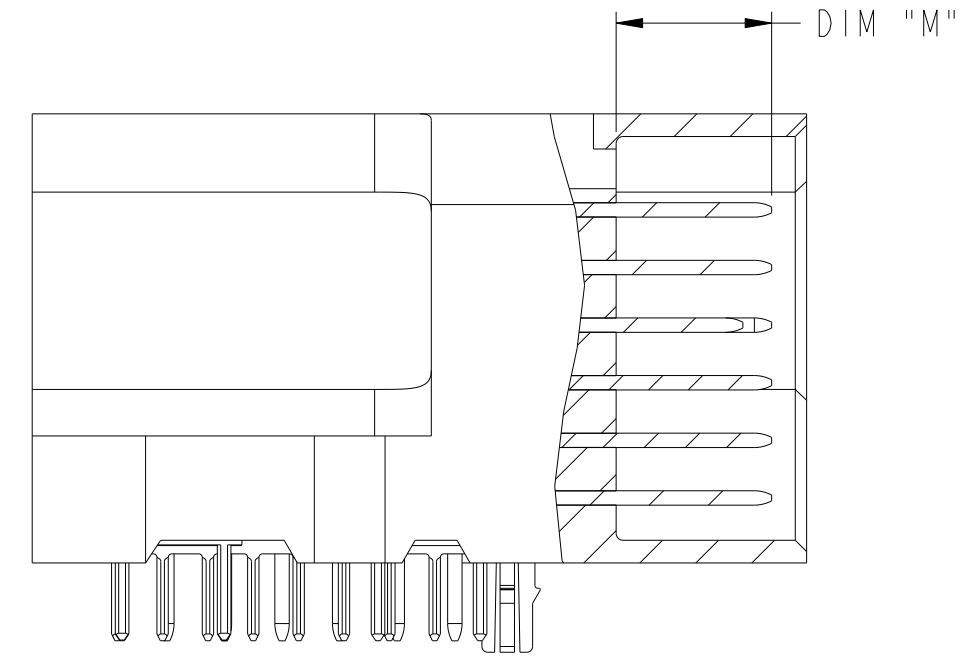
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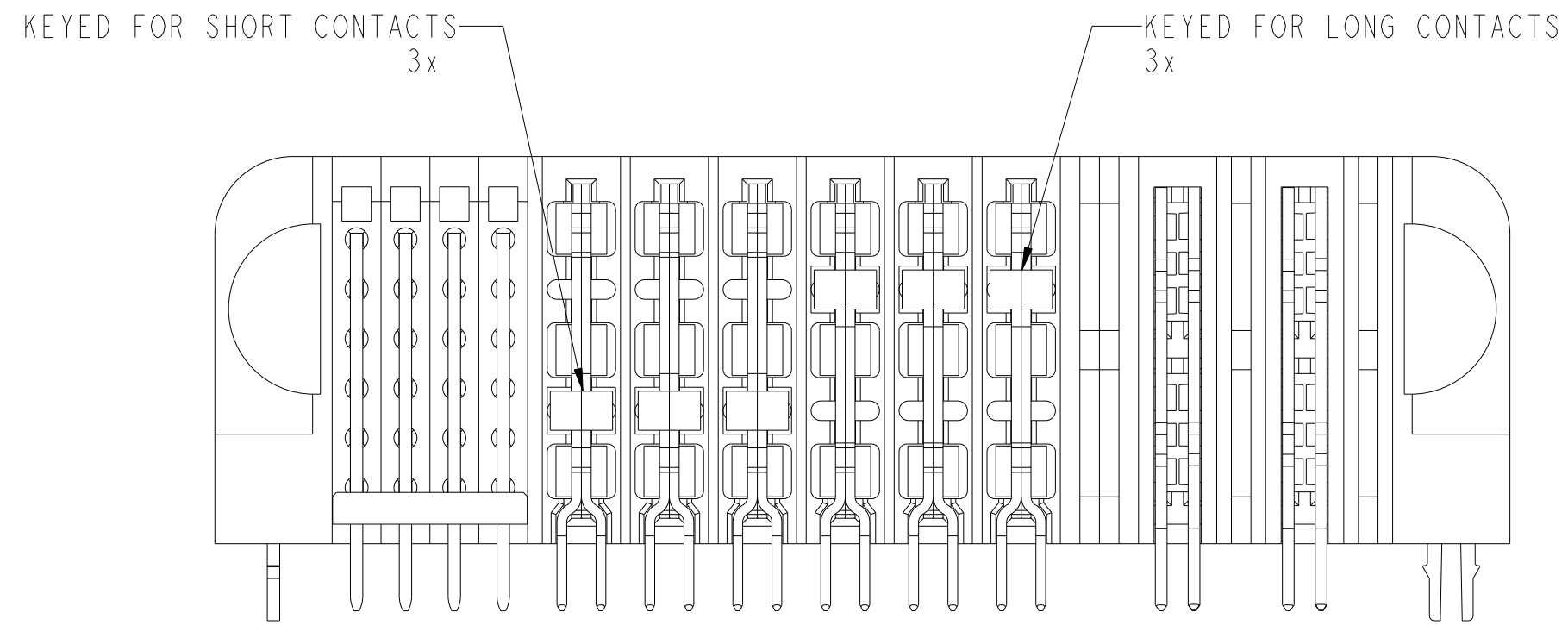
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DETAIL A
SCALE 4:1
 POWER MATING
 SEQUENCE



SECTION W-W
 SIGNAL MATING
 SEQUENCE

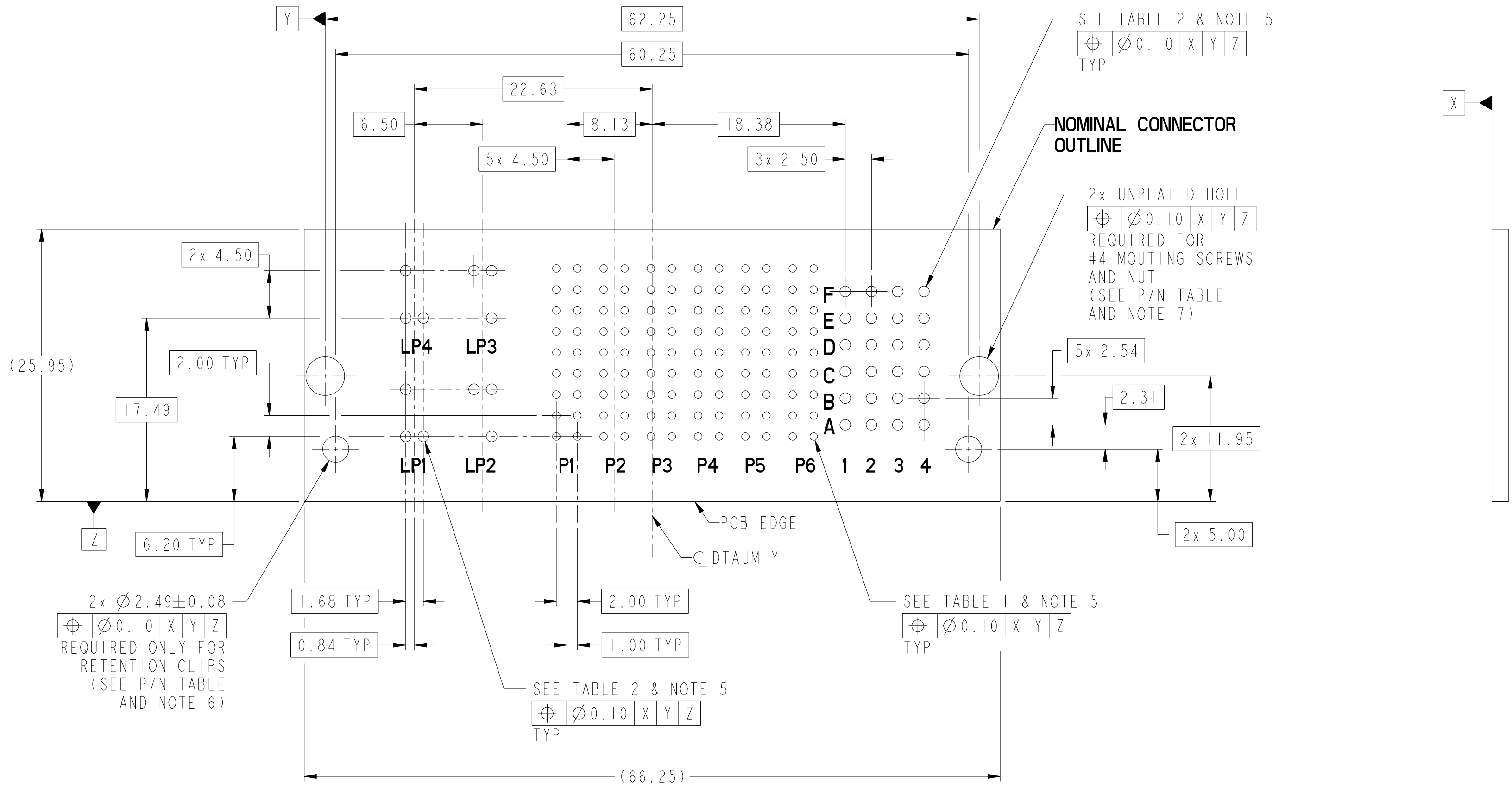


VIEW G-G

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spec ref	*	dr	De-Ming Lu	2015/01/22	projection	MM	size	A2	scale	3:1			
tolerance std	ISO 406 ISO 1101	eng	De-Ming Lu	2017/02/22			ecn no	-					
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Fancy Zhang	2017/02/22			rel level	Released					
		appr	Pei-Ming Zheng	2017/02/22			product family	PWRMAX					
surface	ISO 1302	linear	0.X	±0.5			title	4LP + 6HP + 24S		dwg no	10133137	rev	A
		angular	0°	±2°	Amphenol FCI		RIGHT ANGLE PLUG, SOLDER TAILS			cat. no.	-	Product - Customer Drw	sheet 2 of 6



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTE 4

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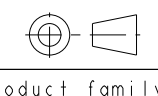
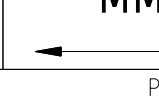
spec ref	*	dr	De-Ming Lu	2015/01/22	projection	MM	size	A2	scale	3:1
tolerance std	ISO 406 ISO 1101	eng	De-Ming Lu	2017/02/22			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Fancy Zhang	2017/02/22						
		appr	Pei-Ming Zheng	2017/02/22						
surface	linear	0.X	±0.5	Amphenol FCI	product family PWRMAX	title 4LP + 6HP + 24S RIGHT ANGLE PLUG, SOLDER TAILS	dwg no 10133137	rev A	cat. no. -	Product - Customer Drw
		0.XX	±0.25							
		0.XXX	±0.100							
	angular	0°	±2°							sheet 3 of 6

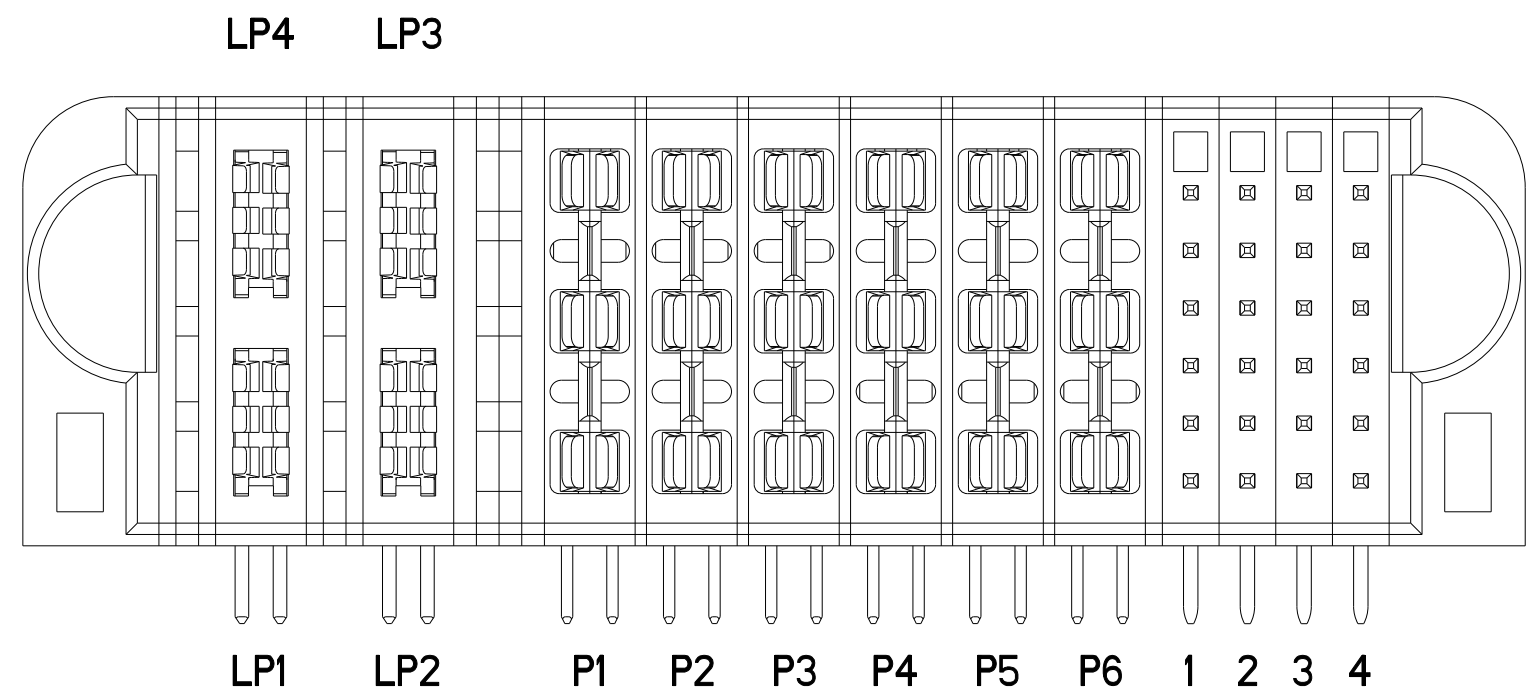
TOP LAYER DESCRIPTION	TABLE 1 (PWRMAX POWER) PLATED THROUGH-HOLE REQUIREMENTS							
	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	0.005 - 0.015	--	--	--	--	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	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 (PWRMAX SIGNALS & LOW 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	1.125-1.175	0.025-0.050	0.005-0.015	--	--	--	--	0.94 - 1.10
IMMERSION TIN	1.125-1.175	0.025-0.050	--	--	--	0.9 - 1.5um	--	0.94 - 1.10
IMMERSION SILVER	1.125-1.175	0.025-0.050	--	--	--	--	0.15 - 0.65um	0.94 - 1.10
COPPER	1.125-1.175	0.025-0.050	--	--	--	--	--	0.94 - 1.10
GOLD	1.125-1.175	0.025-0.050	--	0.003 - 0.007	FLASH UP TO 0.0002	--	--	0.93 - 1.10

Amphenol FCI

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spec ref	*	dr	De-Ming Lu	2015/01/22	projection	MM	size	A2	scale	3:1	
tolerance std	ISO 406 ISO 1101	eng	De-Ming Lu	2017/02/22			ecn no	-	rel level		Released
surface	TOLERANCES UNLESS OTHERWISE SPECIFIED linear 0.X ±0.5 0.XX ±0.25 0.XXX ±0.100 angular 0° ±2°	chr	Fancy Zhang	2017/02/22			product family	PWRMAX	rel level	Released	
		appr	Pei-Ming Zheng	2017/02/22			Amphenol FCI	4LP + 6HP + 24S	RIGHT ANGLE PLUG, SOLDER TAILS	dwg no	10133137
ISO 1302		cat. no.	-	Product - Customer Drw	sheet 4 of 6						



FEED

CONTACT TYPE	ID#	MATING ORDER	DIM "M"
LOWER POWER (AC)	LP1	DETERMINED BY RECEPTACLE	6.23
	LP2		6.23
	LP3		6.23
	LP4		6.23
HIGH POWER (DC)	P1	LONG	8.20
	P2	LONG	8.20
	P3	LONG	8.20
	P4	SHORT	6.93
	P5	SHORT	6.93
	P6	SHORT	6.93
SIGNAL	1A	LONG	6.86
	1B	LONG	6.86
	1C	LONG	6.86
	1D	SHORT	5.59
	1E	LONG	6.86
	1F	LONG	6.86
SIGNAL	2A	LONG	6.86
	2B	LONG	6.86
	2C	LONG	6.86
	2D	LONG	6.86
	2E	LONG	6.86
	2F	LONG	6.86
SIGNAL	3A	SHORT	5.59
	3B	LONG	6.86
	3C	SHORT	5.59
	3D	LONG	6.86
	3E	SHORTEST	4.32
	3F	SHORT	5.59
SIGNAL	4A	SHORT	5.59
	4B	SHORT	5.59
	4C	LONG	6.86
	4D	LONG	6.86
	4E	LONG	6.86
	4F	LONG	6.86

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spec ref	*	dr	De-Ming Lu	2015/01/22	projection	MM	size	A2	scale	3:1	
tolerance std	ISO 406 ISO 1101	eng	De-Ming Lu	2017/02/22		PWRMAX	ecn no	-	rel level		Released
surface	linear angular	0.X	±0.5	Amphenol FCI			title 4LP + 6HP + 24S RIGHT ANGLE PLUG, SOLDER TAILS	cat. no.	product family	dwg no 10133137	rev A
		0.XX	±0.25								
		0.XXX	±0.100								

PDS: Rev :A

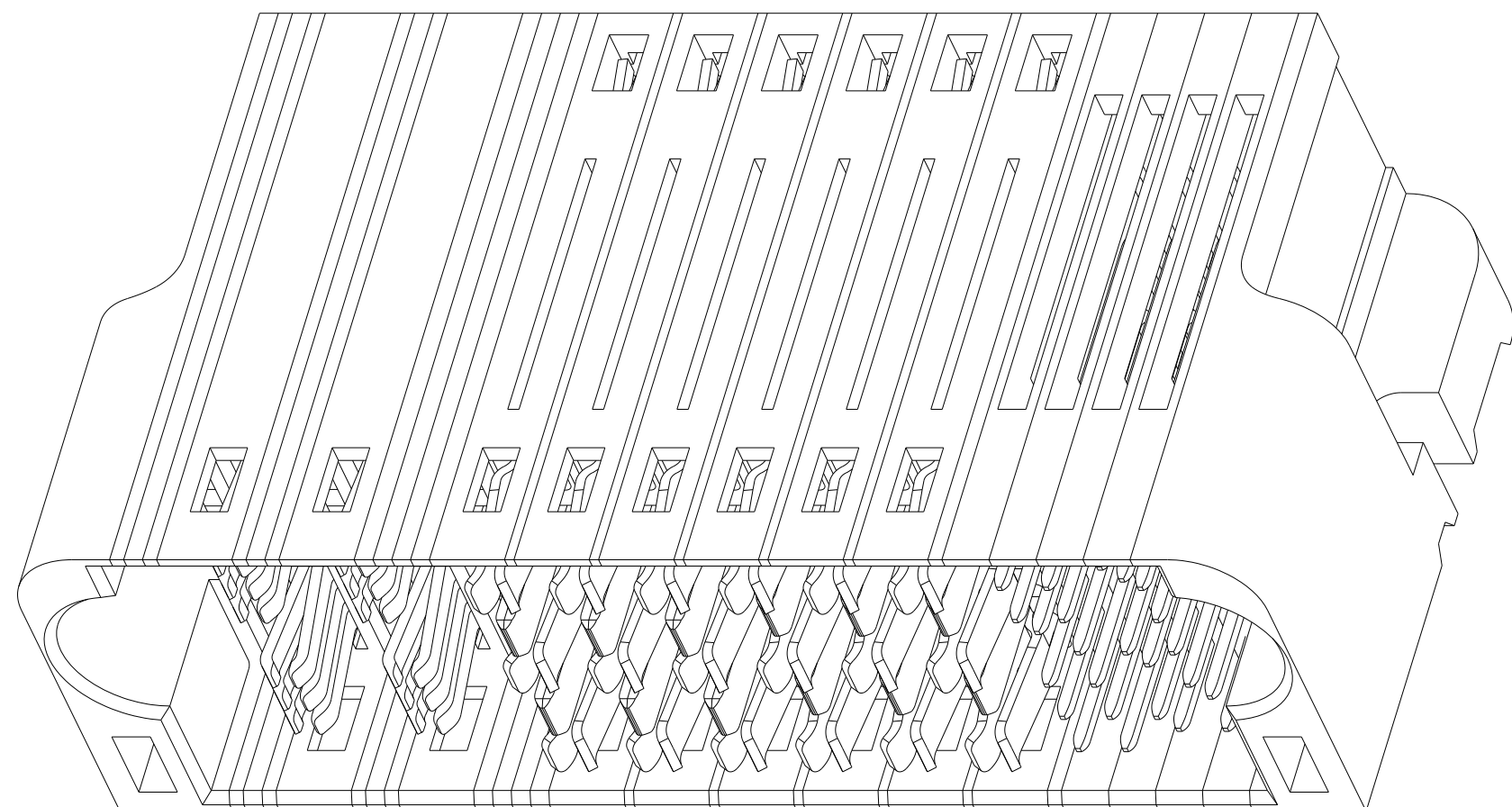
STATUS:Released

Printed: Feb 22, 2017

PART NUMBER	RETENTION CLIPS	#4 SCREW	DIM "T" (TAIL LENGTH)	TAIL TYPE	TOOLED
10133137-001LF	NO	OPTIONAL	3.43	SOLDER TAIL	YES
10133137-003LF	YES		3.43	SOLDER TAIL	YES
10133137-005LF	NO		2.50	SOLDER TAIL	YES
10133137-006LF	YES		2.50	SOLDER TAIL	YES

NOTES:

- MATERIALS:
HOUSING: HIGH TEMP THERMOPLASTIC WITH GLASS FIBER, UL94V-0, BLACK.
POWER CONTACTS: HIGH PERFORMANCE COPPER ALLOY
SIGNAL CONTACT: COPPER ALLOY.
- PLATING SPECIFICATION:
POWER CONTACTS CONTACT AREA: GCS OVER NI
SIGNAL CONTACTS CONTACT AREA: GXT OVER NI
TAIL AREA: MATTE SN OVER NI
- PRODUCT MARK:
PART NUMBER AND DATE CODE TO BE MARKED ON THIS SURFACE .
THE MARK CAN BE OMITTED IF THERE IS NOT ENOUGH SPACE ON THIS SURFACE.
- MINIMUM NOMINAL PCB THICKNESS: 1.6mm
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED.
- SCREW MOUNTING HOLE DIMENSION:
Ø 3.683±0.05mm FOR GENERAL NUT.
Ø 4.216±0.05mm FOR PEM NUT.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- PRODUCT SPECIFICATION: GS-12-1314.
APPLICATION SPECIFICATION: GS-20-0447.
PACKAGE IN TRAYS, PER SPECIFICATION: GS-14-2523.



Amphenol FCI

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spec ref	*	dr	De-Ming Lu	2015/01/22	projection	MM	size	A2	scale	3:1	
tolerance std	ISO 406 ISO 1101	eng	De-Ming Lu	2017/02/22			ecn no	-			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Fancy Zhang	2017/02/22			rel level	Released			
surface	ISO 1302	appr	Pei-Ming Zheng	2017/02/22			product family	PWRMAX	rel level	Released	
		linear	0.X	±0.5			title	4LP + 6HP + 24S		rev	A
			0.XX	±0.25			dwg no	10133137			
			0.XXX	±0.100			RIGHT ANGLE PLUG, SOLDER TAILS				
		angular	0°	±2°			cat. no.	-	Product - Customer Drw	sheet 6 of 6	

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