

Amphenol
FCi

PRELIMINARY

spec ref	-	dr	Ruan MT	2018/05/30	projection	mm	size	A2	scale	3:1
tolerance std	ISO 406 ISO 1101	eng	Jason Chen	2018/08/16		mm	ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Shao-Qi Kuang	2018/08/16						
surface	linear	0.X	±0.5	Amphenol FCi	product family		PwrMAX	rev		
		0.XX	±0.25		title		RA PLUG STB	10143473-B02A000		A
	angular	0°	±2°		10S + 11 HP		10143473-B02A000		A	
ISO 1032				cat. no.	-	Product - Customer Drw		sheet 1 of 3		

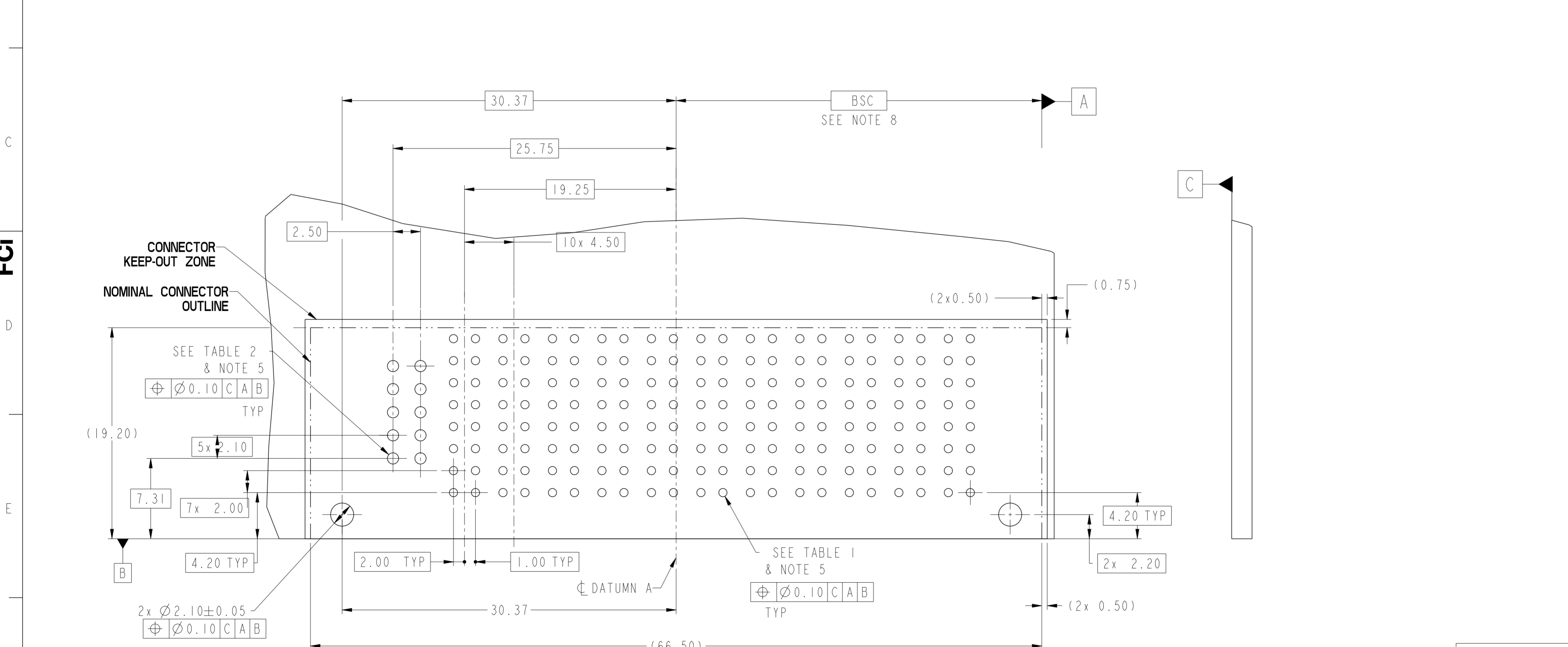
PDS: Rev :A

STATUS:Released

Printed: Aug 16, 2018

TOP LAYER DESCRIPTION	TABLE 1 (PwrMAX POWER) PLATED THROUGH-HOLE REQUIREMENTS							
	DRILLED HOLE DIAMETER	COPPER THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER	ANNULAR RING
IMMERSION TIN	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.9 - 1.5um	--	0.70 - 0.80	0.25 MAX
IMMERSION SILVER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	0.15 - 0.65um	0.70 - 0.80	0.25 MAX
COPPER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	0.70 - 0.80	0.25 MAX
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	0.25 MAX

TOP LAYER DESCRIPTION	TABLE 2 (PwrMAX SIGNALS) PLATED THROUGH-HOLE REQUIREMENTS							
	DRILLED HOLE DIAMETER	COPPER THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER	ANNULAR RING
IMMERSION TIN	1.125-1.175 ($\varnothing .0453 \pm .0010$)	0.025 - 0.050	--	--	0.9 - 1.5um	--	0.94 - 1.10	0.25 MAX
IMMERSION SILVER		0.025 - 0.050	--	--	--	0.15 - 0.65um	0.94 - 1.10	0.25 MAX
COPPER		0.025 - 0.050	--	--	--	--	0.94 - 1.10	0.25 MAX
GOLD		0.025 - 0.050	0.003 - 0.007	FLASH UP TO 0.0002	--	--	0.93 - 1.10	0.25 MAX

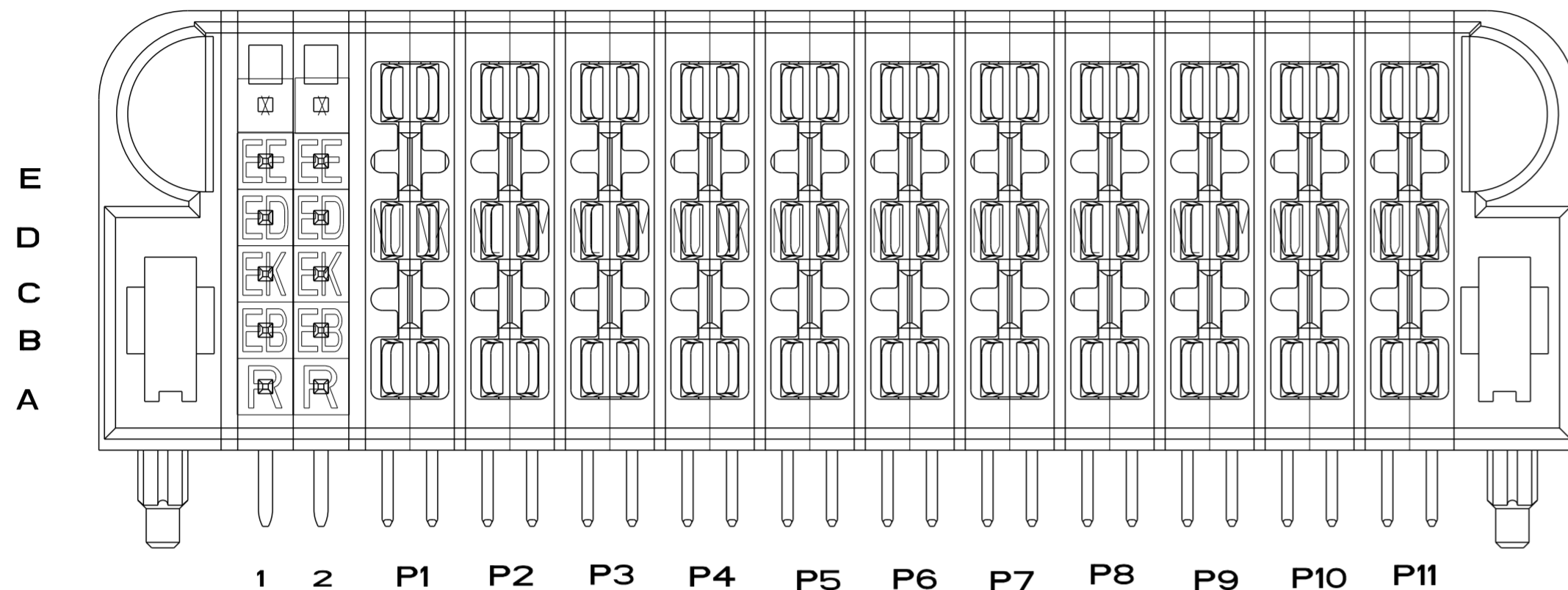


RECOMMENDED PCB LAYOUT COMPONENT SIDE NOTE 5

spec ref -		dr Ruan MT	2018/05/30	projection	mm	size A2	scale 4:1
tolerance std ISO 406 ISO 1101		eng Jason Chen	2018/08/16			ecn no -	rel level Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr Shao-Qi Kuang	2018/08/16				
surface ISO 1032		appr Zheng, Pei-Min	2018/08/16	product family -		cat. no. -	
linear	0.X ±0.5 0.XX ±0.25 0.XXX ±0.10	Amphenol FCI		RA PLUG STB 10S + 11 HP		dwg no 10143473-B02A000 rev A	
angular	0° ±2°						

Product - Customer Drw sheet 2 of 3

PART NUMBER	RETENTION CLIPS	DIM T (TAIL LENGTH)	TAIL TYPE
10143473-B02A000LF	NO	3.43	SOLDER TAIL



CODE	CONTACT TYPE	MATING SEQUENCE
R	SIGNAL	STANDARD
EB	SIGNAL	STANDARD
EC	SIGNAL	STANDARD
ED	SIGNAL	STANDARD
EE	SIGNAL	STANDARD
NJ	HIGHT POWER	STANDARD
NK	HIGHT POWER	STANDARD
NL	HIGH PWOER	FBLM
NM	HIGH POWER	FBLM
X	OMITTED	

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
SOLDER 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 PCB THICKNESS: 1.6mm
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION.
- PRODUCT SPECIFICATION: GS-12-1314.
APPLICATION SPECIFICATION: GS-20-0447.
PACKAGE IN TRAYS, PER SPECIFICATION: GS-14-2523.
- DATUM AND BASIC DIMENIONS ARE ESTABLISHED BY CUSTOMER.
- MOUNTING HOLES ARE UNPLATED.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.

PRELIMINARY

spec ref	-	dr	Ruan MT	2018/05/30	projection	mm	size	A2	scale	4:1			
tolerance std	ISO 406 ISO 1101	eng	Jason Chen	2018/08/16			ecn no	-	Amphenol FCI	title	RA PLUG STB		
surface	linear 0.X ±0.5 0.XX ±0.25 0.XXX ±0.10 angular 0° ±2°	chr	Shao-Qi Kuang	2018/08/16			product family	PwrMAX		rel level	Released	dwg no	10143473-B02A000
		appr	Zheng, Pei-Min	2018/08/16			cat. no.	-		Product - Customer Drw	sheet 3 of 3	rev	A

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