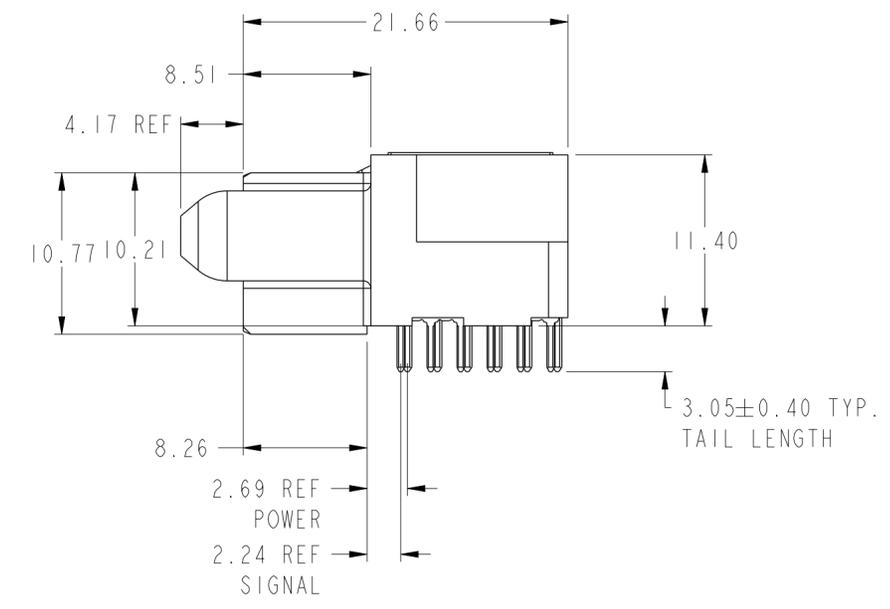
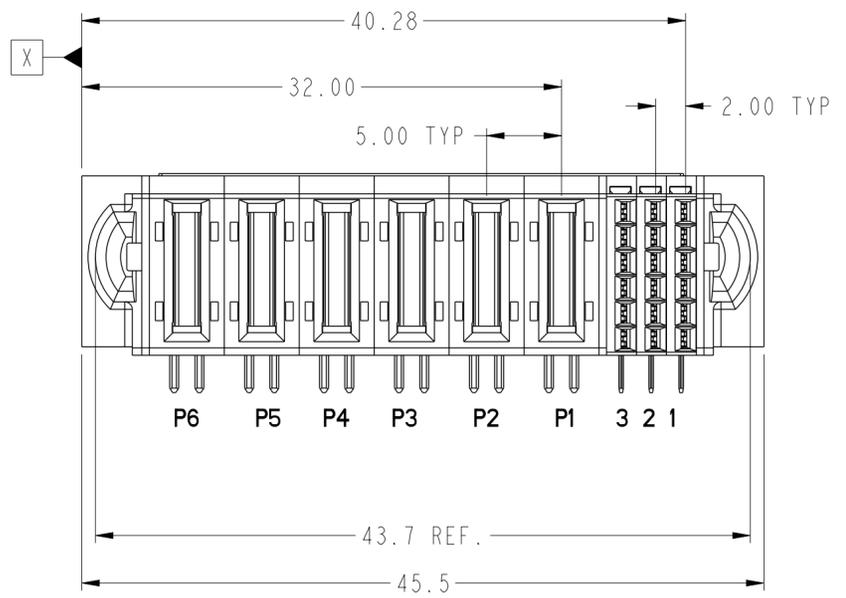
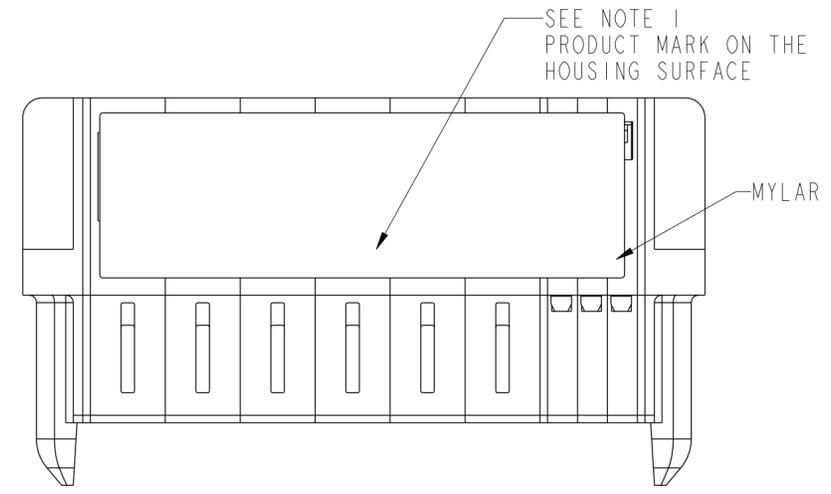


PRODUCT NUMBER  
10169892-630002SLF



Amphenol  
Power Solutions

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spec ref	-	dr	Zhi-Jun He	2024/01/18	<b>Amphenol Power Solutions</b> A Division of Amphenol Corporation amphenol-hcc.com	MM	scale	2:1	size	A2	
tolerance std	ISO 406 ISO 1101	eng	Zhi-Jun He	2024/09/27		ec n no	rel level	Released			
surface	TOLERANCES UNLESS OTHERWISE SPECIFIED linear 0.X ±0.5 0.XX ±0.25 0.XXX ±0.130 angular 0° ±2°	projection	Zheng, Pei-Min	2024/09/27		deg no	10169892-630002S	cat. no.	-	rev	A
		ISO 1302					product family	PwrBlade ULTRA	Product - Customer Drw	sheet 1 of 3	

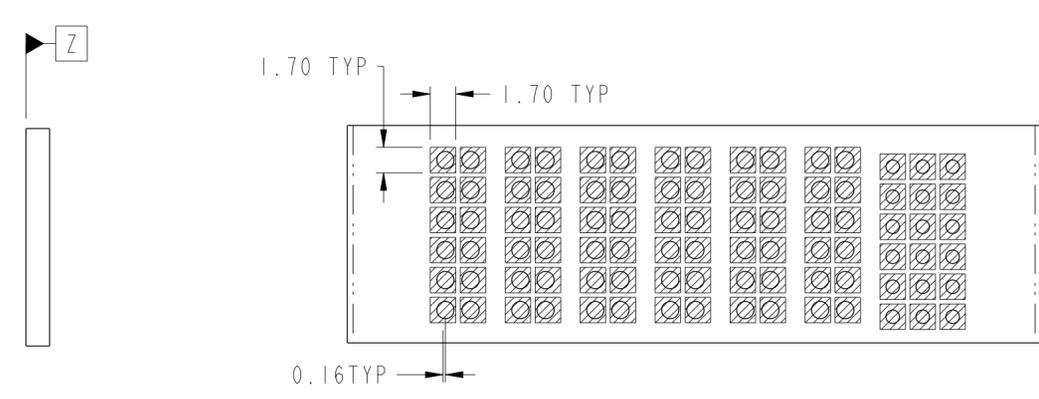
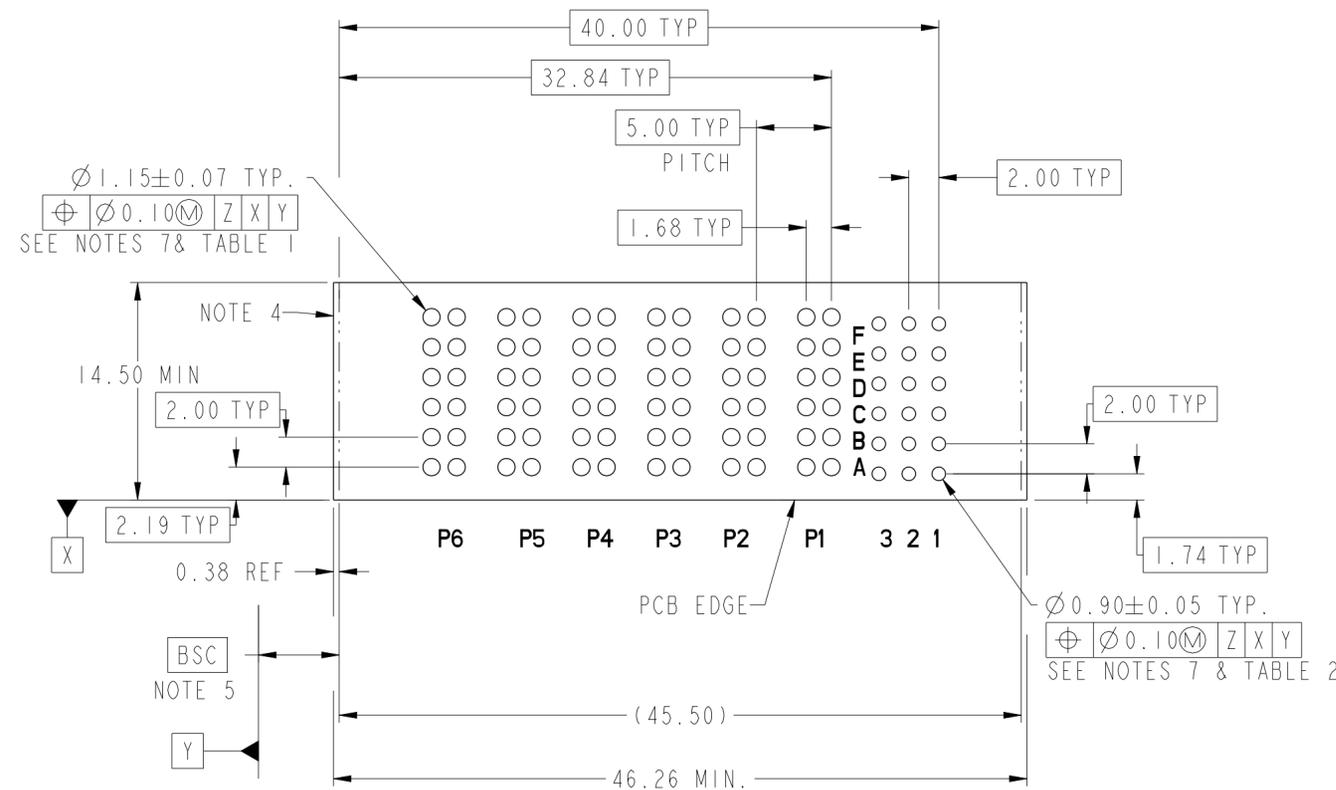
PDS: Rev :A

STATUS:Released

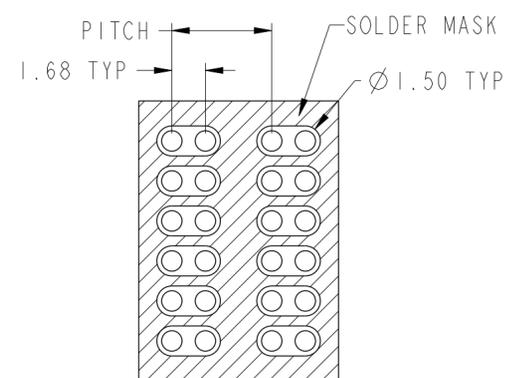
Printed: Sep 27, 2024

TOP LAYER DESCRIPTION	TABLE 1 (PB ULTRA HD+ POWER CONTACT) PLATED THROUGH-HOLE REQUIREMENTS						
	DRILLED HOLE DIAMETER	COPPER THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
IMMERSION TIN	1.225-1.275 (1.25 DRILL)	0.025 - 0.050	--	--	0.9 - 1.5um	--	1.10 - 1.20
IMMERSION SILVER		0.025 - 0.050	--	--	--	0.15 - 0.65um	1.10 - 1.20
COPPER		0.025 - 0.050	--	--	--	--	1.10 - 1.20
GOLD		0.025 - 0.050	0.003 - 0.007	FLASH UP TO 0.0002	--	--	1.10 - 1.20

TOP LAYER DESCRIPTION	TABLE 2 (PB ULTRA HD+ SIGNAL CONTACT) PLATED THROUGH-HOLE REQUIREMENTS						
	DRILLED HOLE DIAMETER	COPPER THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
IMMERSION TIN	0.975-1.025 (1.00 DRILL)	0.025 - 0.050	--	--	0.9 - 1.5um	--	0.85 - 0.95
IMMERSION SILVER		0.025 - 0.050	--	--	--	0.15 - 0.65um	0.85 - 0.95
COPPER		0.025 - 0.050	--	--	--	--	0.85 - 0.95
GOLD		0.025 - 0.050	0.003 - 0.007	FLASH UP TO 0.0002	--	--	0.85 - 0.95



**RECOMMEND SOLDER PASTE LAYOUT  
FOR PIP PROCESS (T=0.25MM)  
TOP VIEW**



**RECOMMENDED SOLDER MASK  
LAYOUT FOR HIGH POWER MODULES**

**RECOMMEND PCB LAYOUT  
TOP VIEW**

spec ref	-	dr	Zhi-Jun He	2024/01/18	<b>Amphenol Power Solutions</b> A Division of Amphenol Corporation amphenol-hcc.com	MM	scale	2:1	size	A2
tolerance std	ISO 406 ISO 1101	eng	Zhi-Jun He	2024/09/27		ecn no				
	TOLERANCES UNLESS OTHERWISE SPECIFIED	r w r				rel level	Released			
surface	linear	0.X	±0.5	projection	18HDS+6HP, STB	dig no	10169892-630002S	rev	A	
	angular	0.XX	±0.25		R/A RECEPTACLE, PwrBlade ULTRA HD+	cat. no.				
		0.XXX	±0.130		product family	PwrBlade ULTRA	Product - Customer Drw	sheet	2 of 3	
		0°	±2°							

PRODUCT NO.

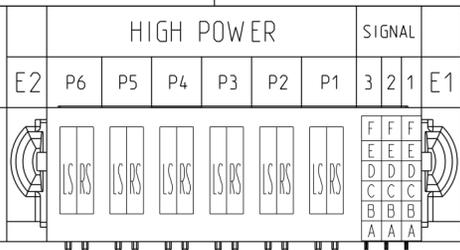
ROWS

HIGH POWER

SIGNAL

10169892-630002SLF

F  
E  
D  
C  
B  
A



CODE	DESCRIPTION	REMARK
A	SIGNAL CONTACT	/
B	SIGNAL CONTACT	/
C	SIGNAL CONTACT	/
D	SIGNAL CONTACT	/
E	SIGNAL CONTACT	/
F	SIGNAL CONTACT	/
LS	LEFT POWER CONTACT	STD
RS	RIGHT POWER CONTACT	STD

NOTES:

- 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.
- MATERIALS:  
HOUSING: HIGH TEMP THERMOPLASTIC WITH GLASS FIBER, UL94V-0, BLACK.  
POWER CONTACTS: HIGH CONDUCTIVITY COPPER ALLOY.  
SIGNAL CONTACTS: COPPER ALLOY.  
HOLD DOWN: COPPER ALLOY.
- PLATING SPECIFICATION: 10135186.
- DENOTES CONNECTOR KEEP OUT ZONE.
- DATUM AND BASIC DIMENSION ARE ESTABLISHED BY CUSTOMER.
- RECOMMEND PCB THICKNEES 2.4MM.
- 1.250±0.025mm DRILLED HOLE PLATED WITH 7.62µm MIN Sn OVER  
25.4µm-76.2µm Cu PLATING TO ACHIEVE A 1.15±0.07mm FINISHED HOLE.  
  
1.00±0.025mm DRILLED HOLE PLATED WITH 7.62µm MIN Sn OVER  
25.4µm-76.2µm Cu PLATING TO ACHIEVE A 0.90±0.05mm FINISHED HOLE.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260° PEAK TEMPERATURE FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- THE VOID CORING BETWEEN POWER MODULES, SIGNAL MODULES AND END MODULES ARE OPTIONAL AND THE SHAPE MAY BE DIFFERENT TO OPTIMIZE THE MOLDING PROCESS. THE VOID CORING WILL NOT EFFECT THE PRODUCT FUNCTION.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- PRODUCT SPECIFICATION: GS-12-1895.  
APPLICATION SPECIFICATION: GS-20-0849.  
PRODUCT PACKAGE SPECIFICATION: GS-14-3094.

Amphenol Power Solutions

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spec ref	-	dr	Zhi-Jun He	2024/01/18		MM	scale	2:1	size	A2
tolerance std	ISO 406 ISO 1101	eng	Zhi-Jun He	2024/09/27		ec n no				
TOLERANCES UNLESS OTHERWISE SPECIFIED		r v w r	-	-		rel level	Released			
		appr	Zheng, Pei-Min	2024/09/27		A Division of Amphenol Corporation amphenol-hcc.com				
surface	linear	0.X	±0.5	projection	18HDS+6HP, STB	deg no	10169892-630002S	rev	A	
		0.XX	±0.25		R/A RECEPTACLE, PwrBlade ULTRA HD+	cat. no.	-			
		0.XXX	±0.130							
ISO 1302	angular	0°	±2°		product family	PwrBlade ULTRA	Product - Customer Drw	sheet 3 of 3		

PDS: Rev :A

STATUS:Released

Printed: Sep 27, 2024