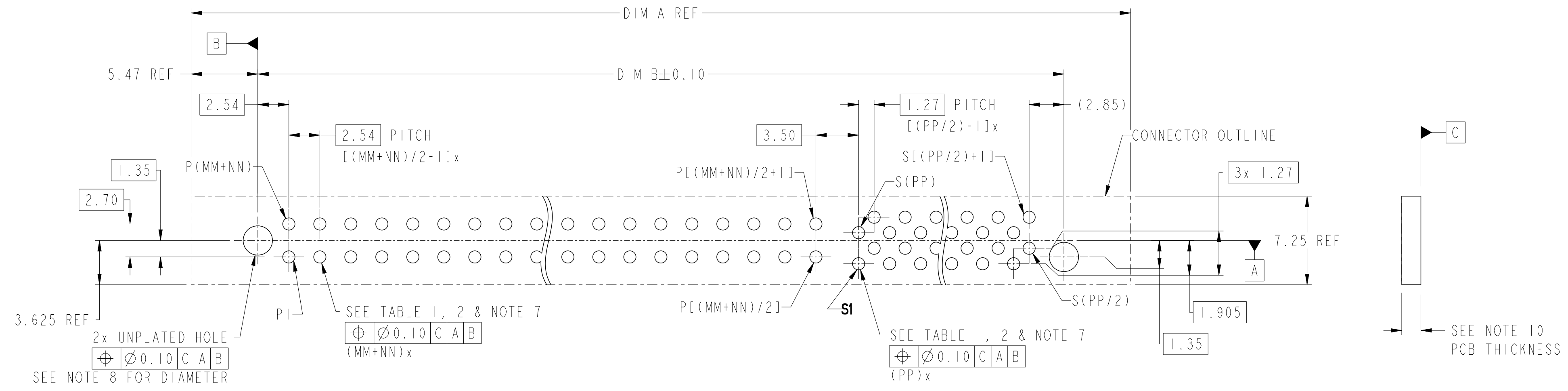


spec ref	dr	Julia Wang	2014/03/07	Amphenol Power Solutions A Division of Amphenol Corporation amphenol-hcc.com	MM	scale	4:1	size	A2
tolerance std	eng	Peter Hu	2022/03/04		ecn no	ELX-DG-43962-1	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED					app	Zheng, Pei-Min	2022/03/04	rel level	Released
surface	linear	0.X	± 0.5	projection	HPCE BTB VT RECT WITH GUIDE POST	dig no	10125023	rev	C
		0.XX	± 0.25		CONFIG. P+S - UNIVERSAL DRAWING	cat. no.			
	angular	0°	$\pm 2^\circ$		product family	Product - Customer Drw	sheet 1 of 3		

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 & SIGNAL	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 (SEE NOTE 7)	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	--	0.94 - 1.10

CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 2 (HPCE / PRESS-FIT TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	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
	COPPER (SEE NOTE 7)	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80



Amphenol Power Solutions

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tolerance std	eng	Peter Hu	2022/03/04		ec n no	ELX-DG-43962-1	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		r v w r	-		product family	-	Product - Customer Drw	sheet 2 of 3	
surface	linear	0.X	±0.5	projection	HPCE BTB VT RECT WITH GUIDE POST	dig no	10125023	rev	C
		0.XX	±0.25		CONFIG. P+S - UNIVERSAL DRAWING	cat. no.	-		
	angular	0.XXX	±0.10						
ISO 1302		0°	±2°						

PDS: Rev : C

STATUS: Released

Printed: Mar 04, 2022

10125023 - MM NN PP - LF

LEAD FREE

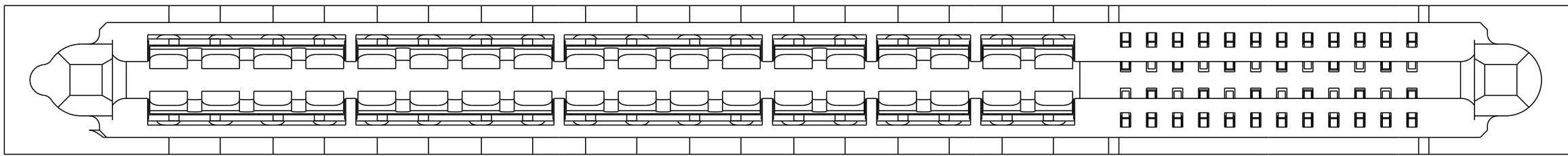
TAIL TYPE
NOTE 10

NON-HALOGEN FREE		HALOGEN FREE	
A	B	1	2
STB	PF	STB	PF

4 BEAM POWER CONTACT
(NEXT TO LEFT END)

2 BEAM POWER CONTACT
(NEXT TO SIGNAL)

SIGNAL CONTACT
(NEXT TO RIGHT END)



DIM	TABLE 3. LENGTH FORMULAS
DIM A (12)	$(MM + NN) / 2 \times 2.54 + (PP / 2) \times 1.27 + 16.02$
DIM B	$DIM A - 10.94$

Example: The configuration above is 10125023-241224BLF
 STD HPCE BTB VERT. PRESS-FIT RECEPT. 36P24S.
 24P is 4 beam contact, 12P is 2 beam contact.

TABLE 4: PART NUMBER CODE. HPCE BTB STD VERT RECPT P+S CONFIG

NOTES:

- CONNECTOR MATERIALS:
 HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
 UL 94V-0 COMPLIANT
 CONTACTS: HIGH PERFORMANCE COPPER ALLOY.
- CONTACT FINISH REF. GS-12-1125 SECTION 5.2.
- PRODUCT SPECIFICATION: GS-12-1125.
- APPLICATION SPECIFICATION: GS-20-0388.
- 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.
- PACKAGING MEETS FCI SPECIFICATION GS-14-2272.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED:
 $\varnothing 2.40 \pm 0.10$ FOR PRESS-FIT TAILS
 $\varnothing 2.18 \pm 0.03$ FOR SOLDER TAILS
- PRESS FIT APPLICATION TOOL DRAWING: 10125182

- STB: SOLDER TO BOARD, 1.57-2.38mm PCB THICKNESS
 PF: PRESS FIT, 1.57mm MINIMUM PCB THICKNESS.
- HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 245°C PEAK TEMPERATURE FOR 10 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
- MAXIMUM OVERALL LENGTH IS 100mm.

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tolerance std	eng	Peter Hu	2022/03/04		ec n no	ELX-DG-43962-1				
TOLERANCES UNLESS OTHERWISE SPECIFIED					app r	Zheng, Pei-Min	2022/03/04	rel level	Released	
surface	linear	0.X	±0.5	projection		TITLE HPCE BTB VT RECPT WITH GUIDE POST CONFIG. P+S - UNIVERSAL DRAWING	dig no 10125023	cat. no.	rev	C
		0.XX	±0.25						product family	Product - Customer Drw
ISO 1302	angular	0°	±2°							