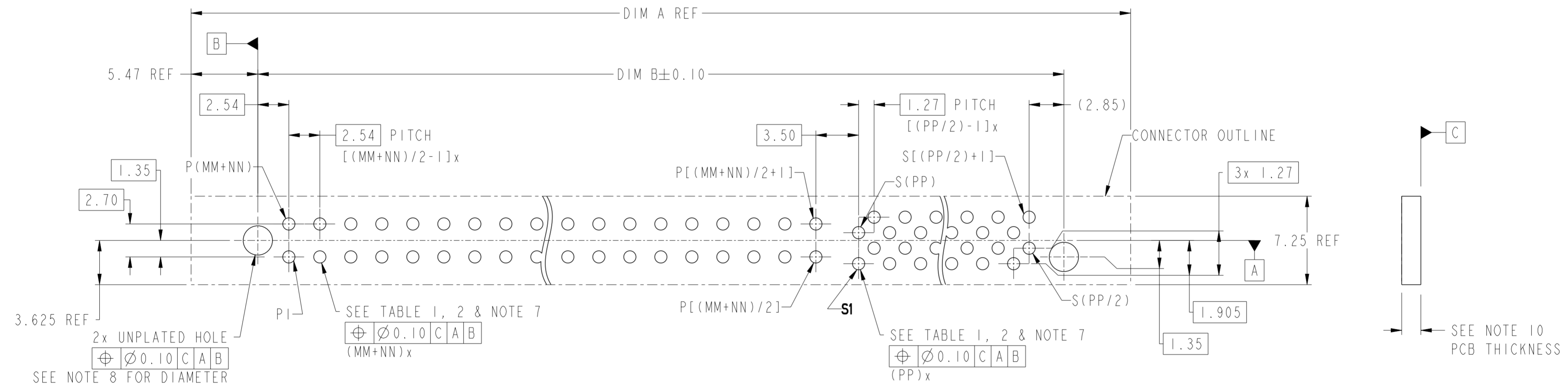


spec ref	dr	Julia Wang	2014/03/07	Amphenol Power Solutions A Division of Amphenol Corporation amphenol-hcc.com	MM	scale	4:1	size	A2
tolerance std	eng	Peter Hu	2022/03/04		ec n no	ELX-DG-43962-1	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		r v w r	-		dig no	10125023	cat. no.		rev
surface	linear	0.X	± 0.5	projection	HPCE BTB VT RECT WITH GUIDE POST	product family	Product - Customer Drw	sheet 1 of 3	
		0.XX	± 0.25		CONFIG. P+S - UNIVERSAL DRAWING				
		0.XXX	± 0.10						
	angular	0°	$\pm 2^\circ$						

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		fwvr	-		dig no	10125023	cat. no.	-	rev
surface	linear	0.X	±0.5	projection	HPCE BTB VT RECT WITH GUIDE POST		product family	Product - Customer Drw	sheet 2 of 3
		0.XX	±0.25		CONFIG. P+S - UNIVERSAL DRAWING				
		0.XXX	±0.10						
ISO 1302	angular	0°	±2°						

PDS: Rev : C

STATUS: Released

Printed: Mar 04, 2022

10125023 - MM NN PP - LF

LEAD FREE

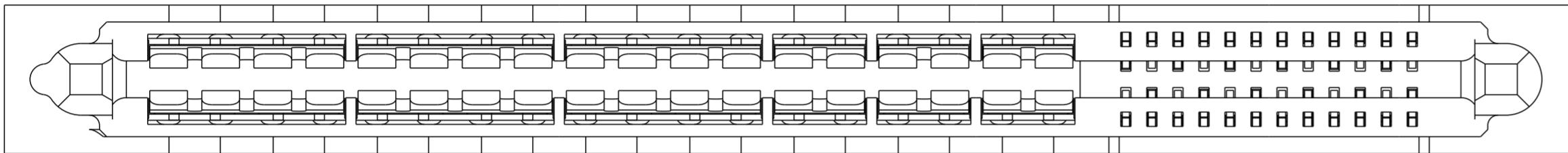
TAIL TYPE
NOTE 10

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:

1. CONNECTOR MATERIALS:

HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
 UL 94V-0 COMPLIANT
 CONTACTS: HIGH PERFORMANCE COPPER ALLOY.

2. CONTACT FINISH REF. GS-12-1125 SECTION 5.2.

3. PRODUCT SPECIFICATION: GS-12-1125.

4. APPLICATION SPECIFICATION: GS-20-0388.

(5) 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.

6. PACKAGING MEETS FCI SPECIFICATION GS-14-2272.

(7) ALL HOLE SIZES ARE FINISHED HOLE SIZES.

(8) MOUNTING HOLES ARE UNPLATED:
 Ø2.40 +/- 0.10 FOR PRESS-FIT TAILS
 Ø2.18 +/- 0.03 FOR SOLDER TAILS

9. PRESS FIT APPLICATION TOOL DRAWING: 10125182

(10) STB: SOLDER TO BOARD, 1.57-2.38mm PCB THICKNESS
 PF: PRESS FIT, 1.57mm MINIMUM PCB THICKNESS.

11. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 245°C PEAK TEMPERATURE
 FOR 10 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.

(12) 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					rel level	Released			
surface	proj	Zheng, Pei-Min	2022/03/04		dig no	10125023	rev	C	
ISO 1302	linear	0.X	±0.5	title		HPCE BTB VT RECPT WITH GUIDE POST		product family	
	angular	0°	±2°	CONFIG. P+S - UNIVERSAL DRAWING		Product - Customer Drw		sheet 3 of 3	