

HSB-D4-XXDXXXXX

SHEET 1 OF 5

REV. A

C

B

A

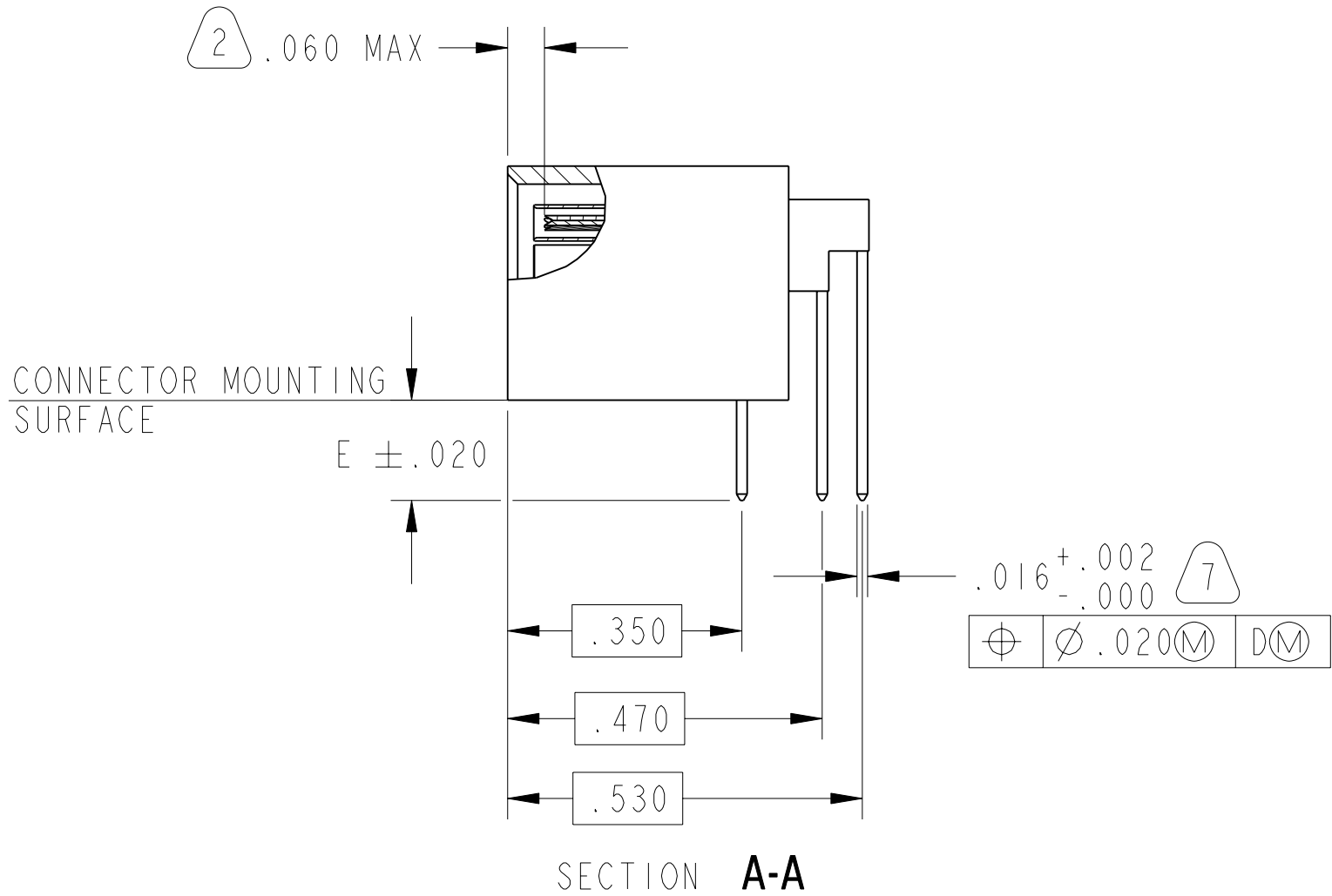
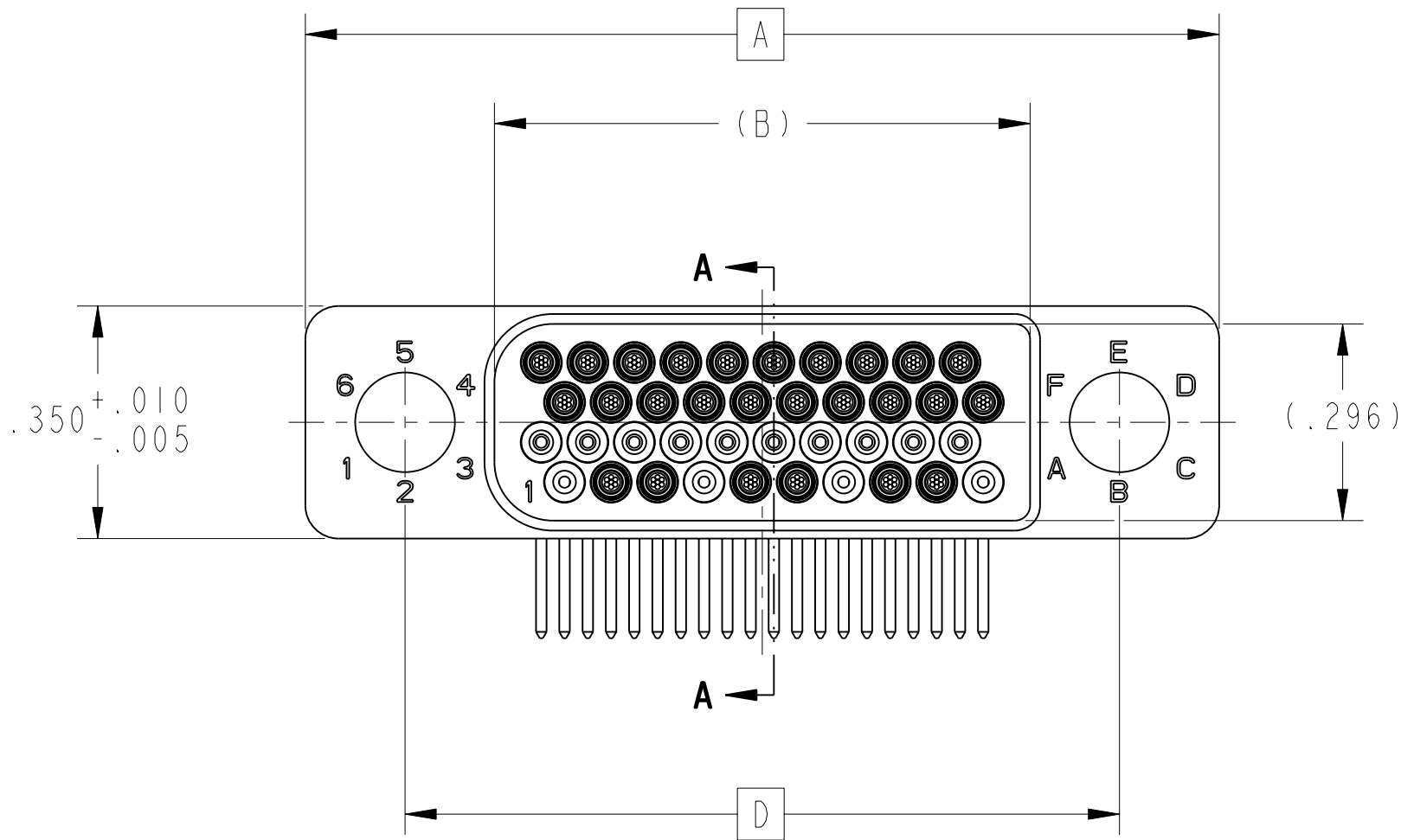
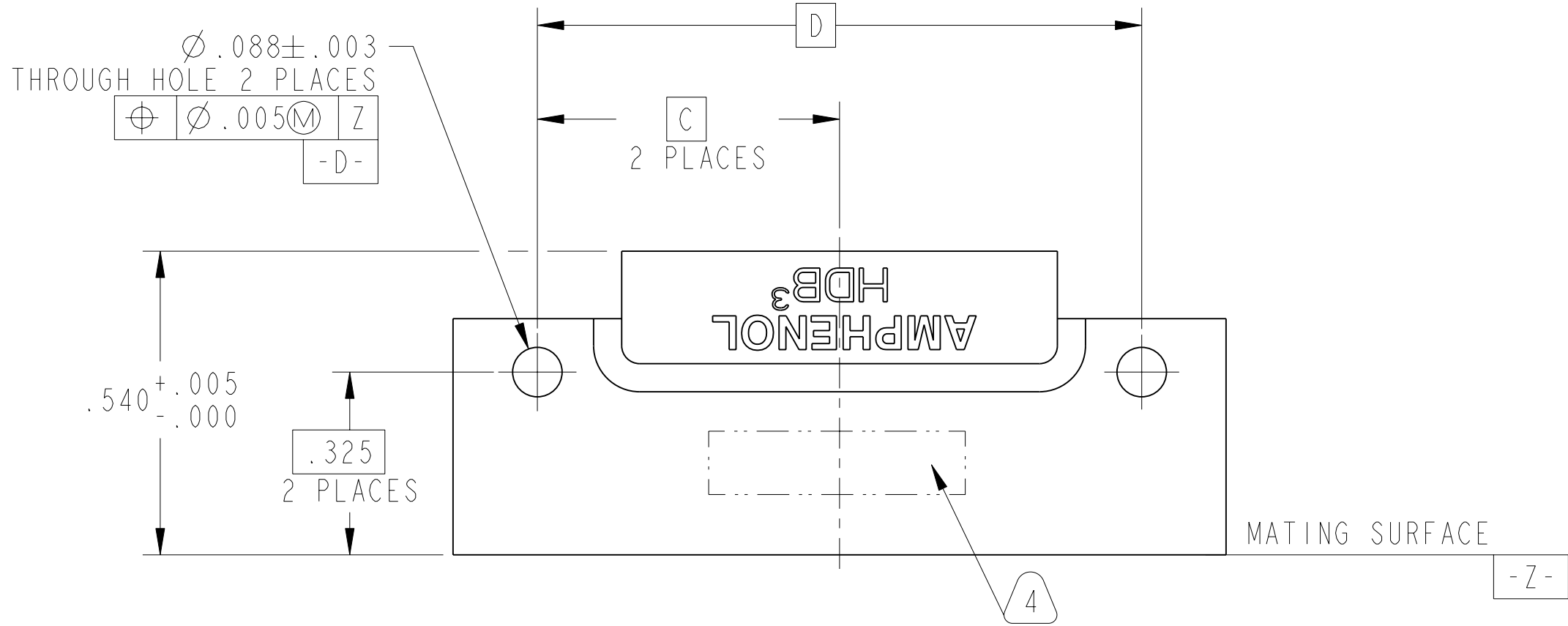
FORMAT: C-U-E-I

4

3

2

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	11/15/2007



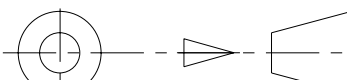
NOTES:

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N/A

NEXT ASSEMBLY

PRO/ENGINEER INFORMATION
Pro/e Model Used:
HSB-DX-XXDXXXXX.ASSEM
Drawing Name:
HSB-D4-XXDXXXXX

UNLESS OTHERWISE SPECIFIED		SPECIFICATIONS		POS	QTY	PART NUMBER	DESCRIPTION	NOTE	
LINEAR DIMENSIONS ARE IN INCHES TOLERANCES: . XXXX = ±.0005 ANGLES= ±2° . XXX = ±.010 . XX = ±.03 . X = ±.1 ----- DIM. & TOL. PER ASME Y14.5M; DRM PER MIL-DTL-31000; OTHER Amphenol Sds. PER 9-3800 LEGENDS: -FLAG NOTE CALL OUT REFERENCE ONLY 		MATERIAL SPEC.	PARTS LIST						
		APPROVALS		DATE		AMPHENOL CORPORATION 40-60 DELAWARE AVENUE SIDNEY, N.Y. 13838 3 DIFF PAIR WITH 20 BRUSH DAUGHTER BOARD CONNECTOR HSB3 SERIES			
		PREPARED BY		19-SEP-07					
		ENGINEER IN CHARGE							
		N/A		DMORSE		BCHUBB		U	
PROCESS SPEC.		EHICKEY		BLP					
9-3895 9-3856-5		THIRD ANGLE PROJECTION		SIZE		CAGE CODE		DOCUMENT NO.	REV.
				C		77820		HSB-D4-XXDXXXXX	A
				SCALE: 4.0		REF. HSB-D4-XXXXXXX		SHEET 1 OF 5	

HSB-D4-XXD

X

XX

X

X

EXAMPLE: HSB-D4-03D M 02 2 X

CONTACT TERMINATION FINISH

2	GOLD PLATED IN ACCORDANCE WITH MIL-G-45204, TYPE II, .000030 MIN THICK GOLD OVER .000050 MIN THICK NICKEL
5	TIN PLATED IN ACCORDANCE WITH ASTM B545, .00010 MIN THICK MATTE TIN OVER .00010 MIN THICK NICKEL. 
6	TIN-LEAD PLATED IN ACCORDANCE WITH SAE-AMS-P-81728, .00010 MIN THICK TIN-LEAD OVER .00010 MIN THICK COPPER

HARDWARE (SUPPLIED UNASSEMBLED)

X	NO HARDWARE
P	POLARIZATION KEY (QTY 2)
L	LOW PROFILE MOUNTING NUT (QTY 2)

TERMINATION

	TYPE	STICKOUT (DIM E)
00	PCB, RIGHT ANGLE, .016 DIA.	.060
01	PCB, RIGHT ANGLE, .016 DIA.	.090
02	PCB, RIGHT ANGLE, .016 DIA.	.120
03	PCB, RIGHT ANGLE, .016 DIA.	.150
04	PCB, RIGHT ANGLE, .016 DIA.	.180
05	PCB, RIGHT ANGLE, .016 DIA.	.210
06	PCB, RIGHT ANGLE, .016 DIA.	.300

BRUSH WIRE PLATING (CONTACT INTERFACE)

M	0.000050 Au MIN THK OVER NICKEL
C	0.000020 Au MIN THK OVER NICKEL

DIFFERENTIAL SIGNAL

CONNECTOR DIMENSIONS

NUMBER DIFF SIGNALS	NUMBER OF CONTACTS	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D
03	26	1.375	.806	.5375	1.075
07	54	2.075	1.506	.8875	1.775
10	80	2.775	2.206	1.2375	2.475
13	106	3.475	2.906	1.5875	3.175

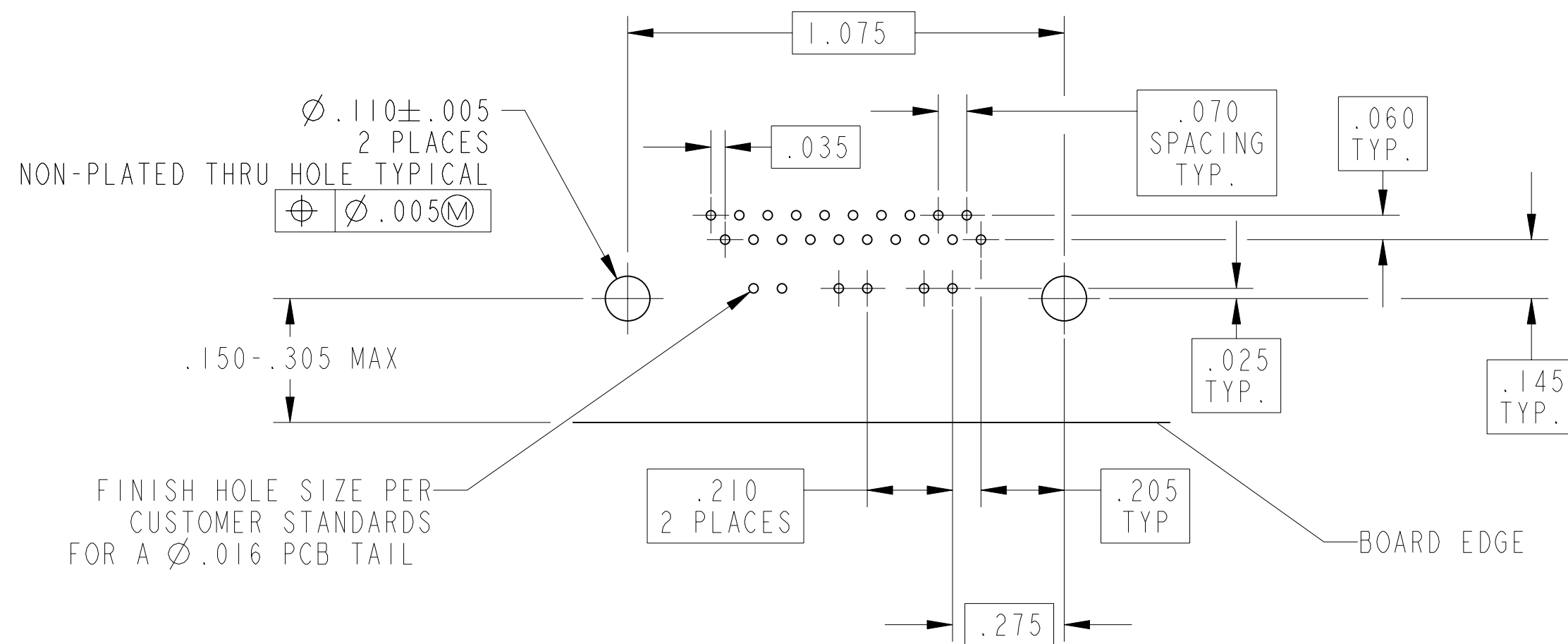
HIGH SPEED/HIGH DENSITY BRUSH

NOTES:

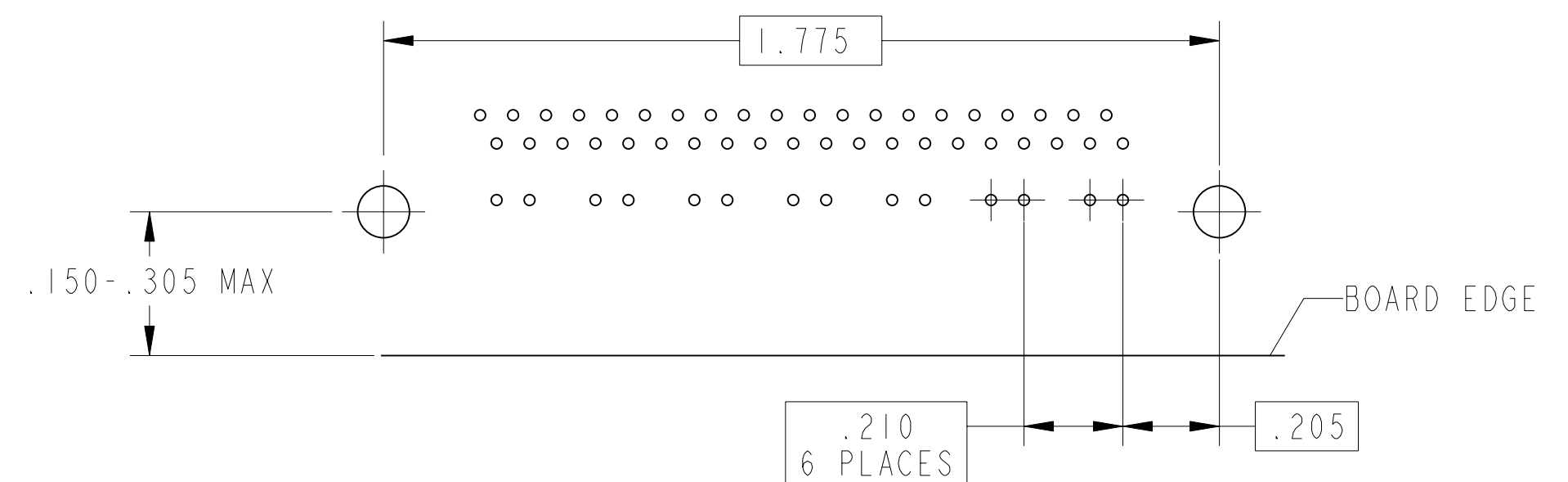
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SIZE C	CAGE CODE 77820	DOCUMENT NO. HSB-D4-XXDXXXXX	REV. A
SCALE: 3.0		REF: HSB-D4-XXXXXXXX	SHEET 2 OF 5

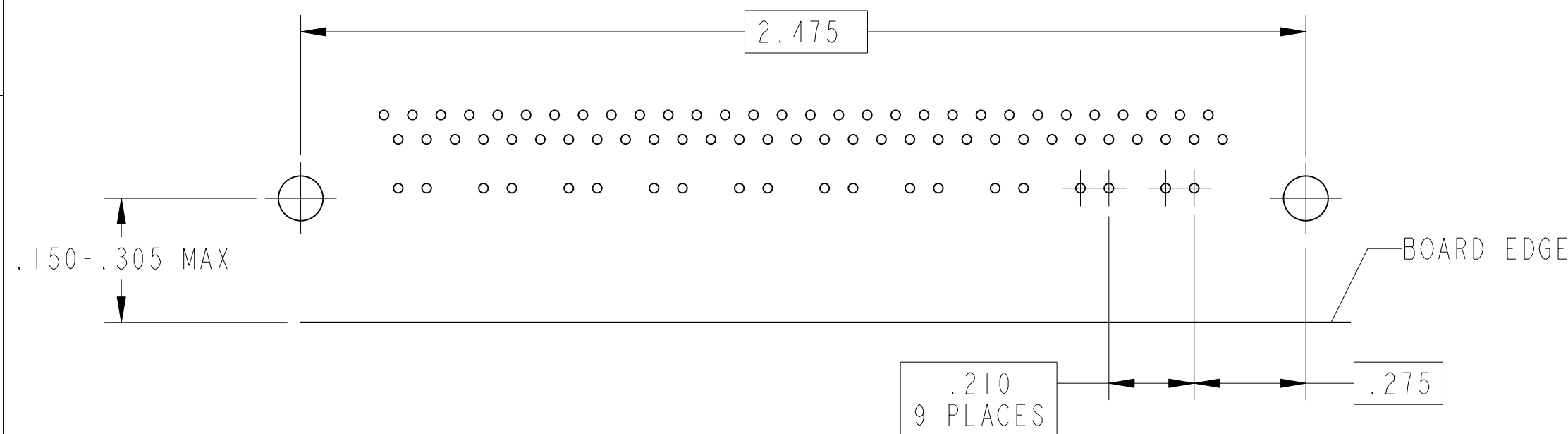
**SUGGESTED DAUGHTER BOARD LAYOUT
FOR 3, 7, 10 AND 13 DIFFERENTIAL PAIR
COMPONENT SIDE**



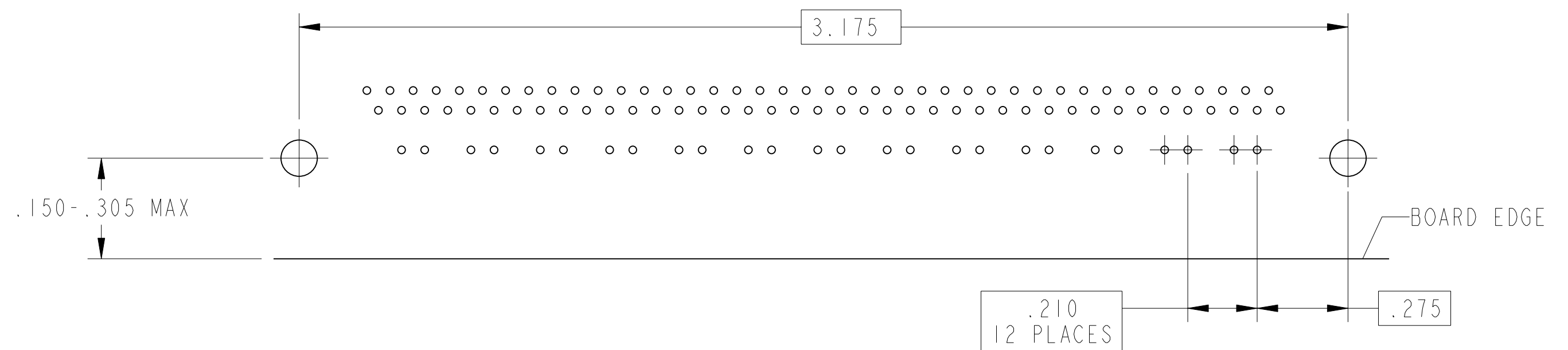
3 DIFFERENTIAL PAIR



7 DIFFERENTIAL PAIR



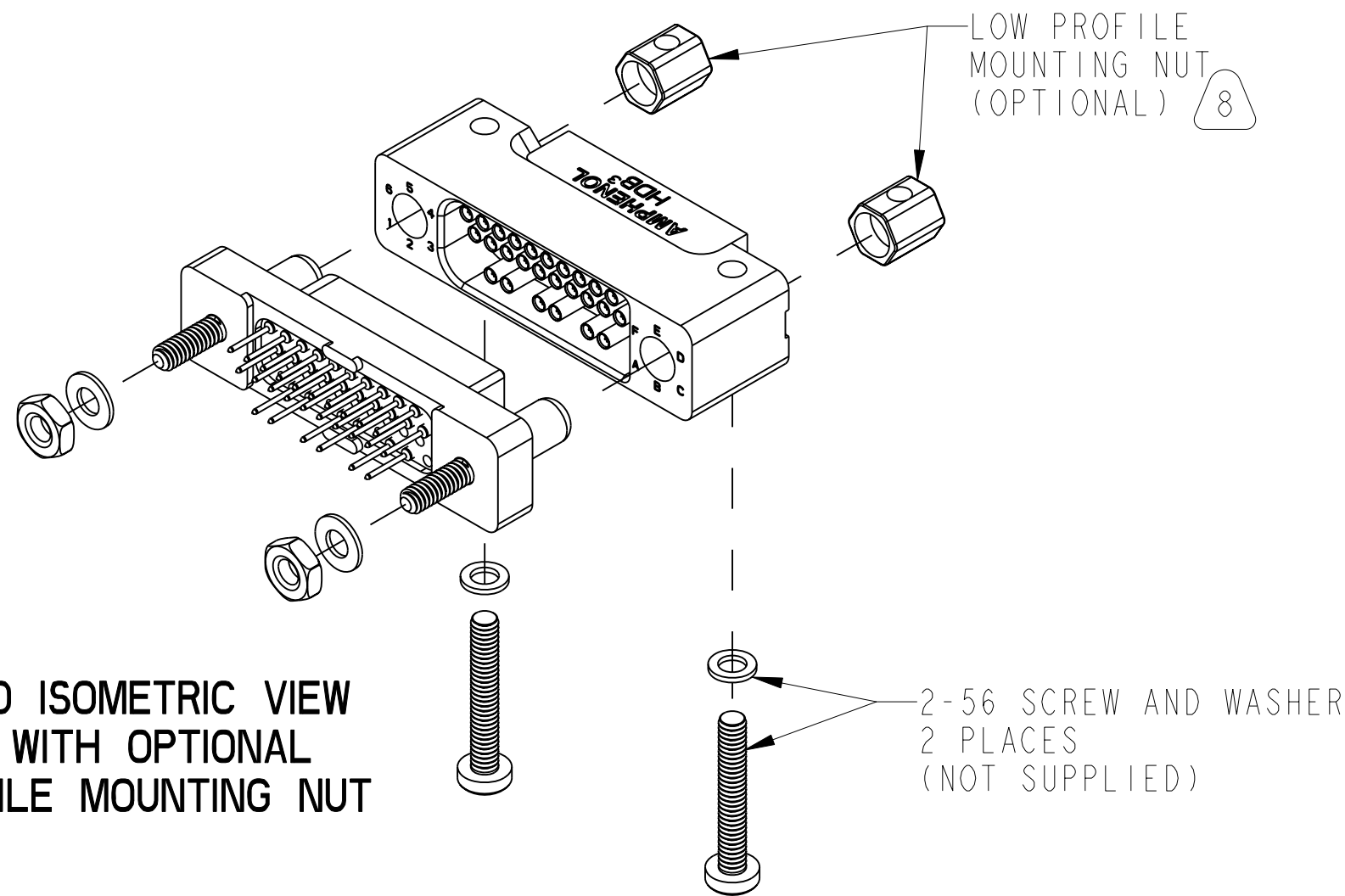
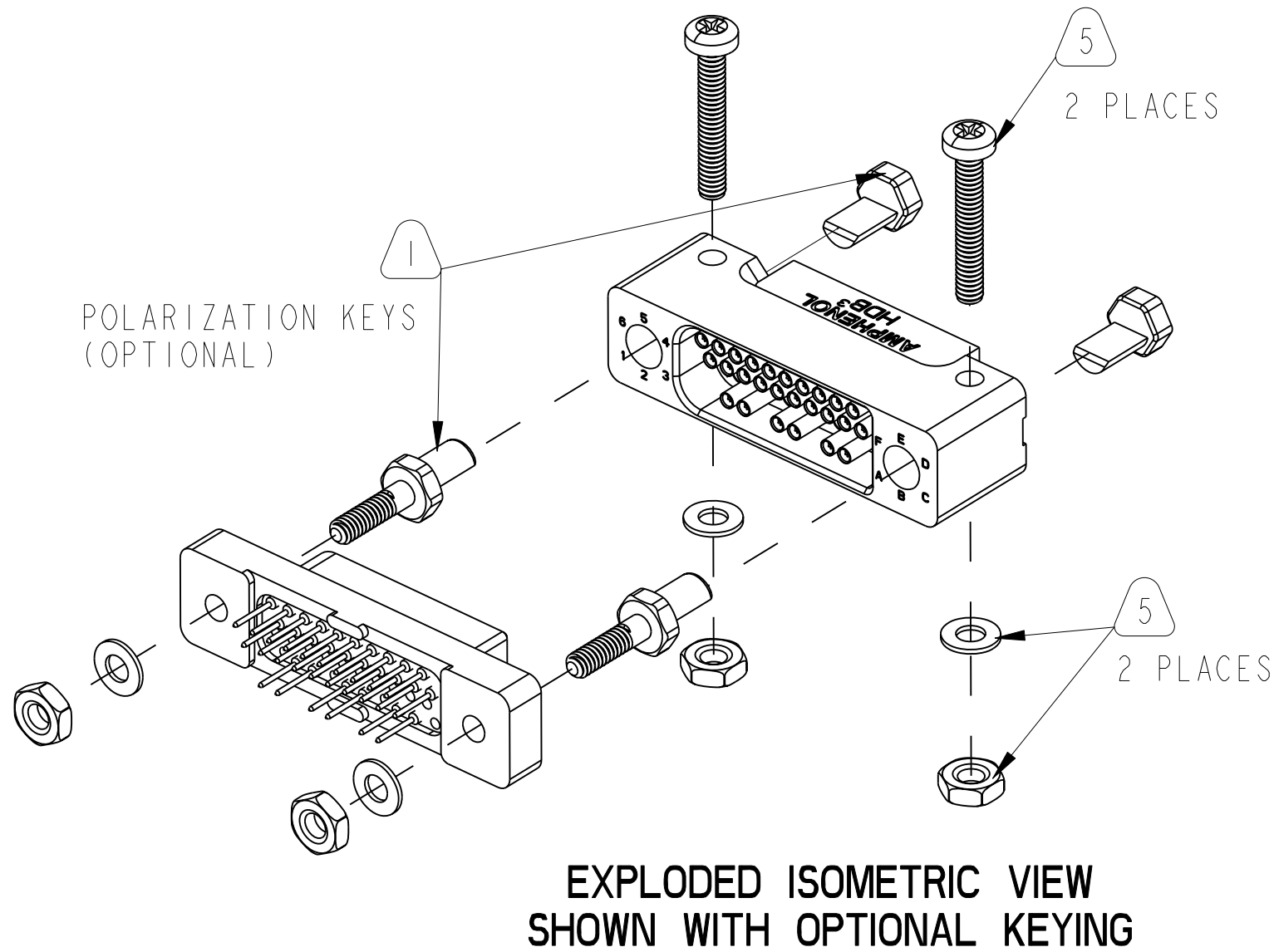
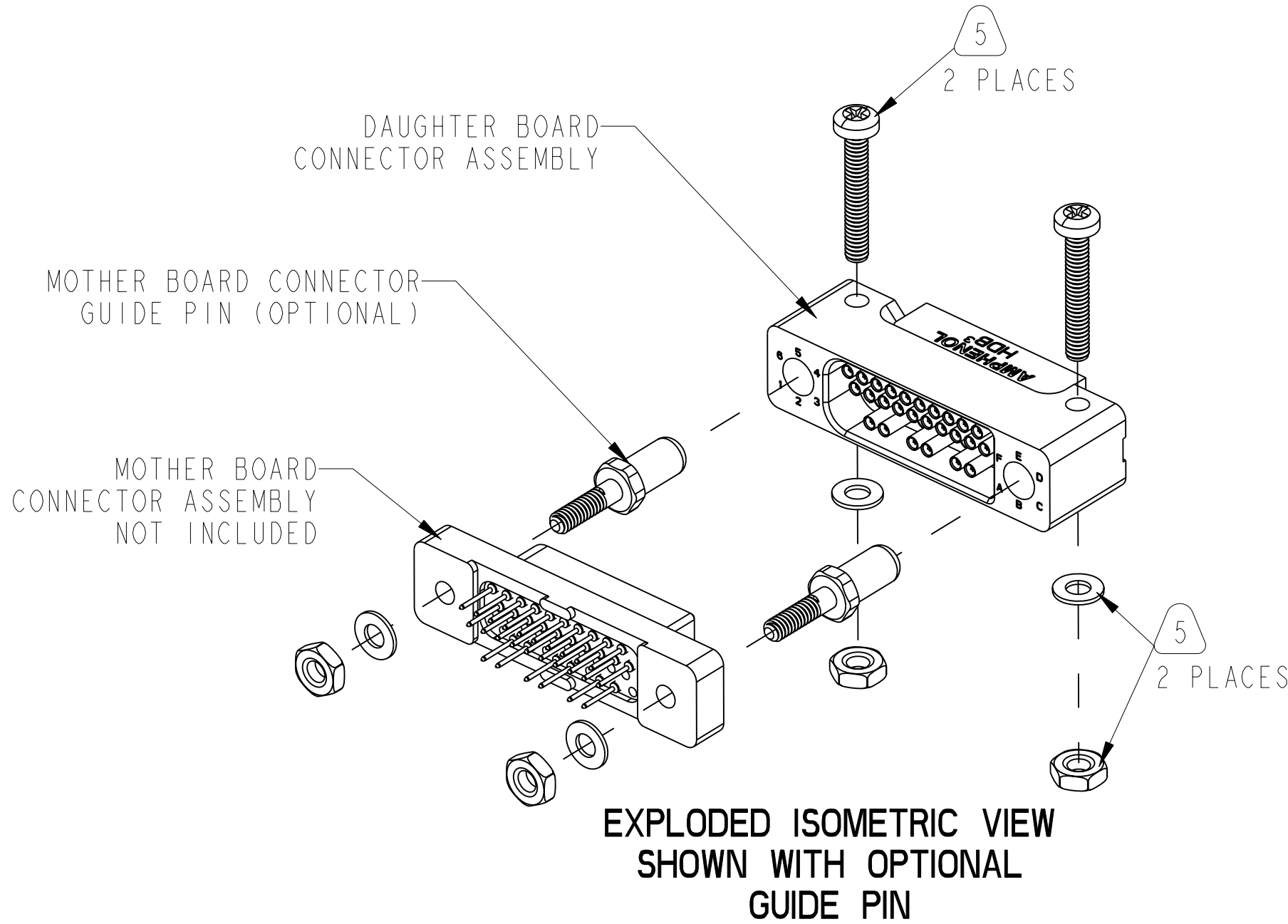
10 DIFFERENTIAL PAIR



13 DIFFERENTIAL PAIR

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8. LOW PROFILE MOUNTING NUTS ARE OPTIONAL. WHEN USING, A QUANTITY OF 2 ARE REQUIRED PER CONNECTOR. INSERT LOW PROFILE MOUNTING NUTS FROM REAR OF CONNECTOR PRIOR TO MOUNTING CONNECTOR WITH SCREWS (SCREWS NOT INCLUDED). WHEN USING LOW PROFILE MONTING NUT, MATING CONNECTOR MAY ALSO USE GUIDE PINS.
7. CONTACT ASSEMBLIES ARE NON- REPLACEABLE.
6. RoHS COMPLIANT FOR TERMINATION FINISH TIN PLATE OVER NICKEL.
5. USE A 2-56 SCREW, NUT AND WASHER FOR MOUNTING CONNECTOR ASSEMBLY WITH OR WITHOUT POLARIZATION KEYS. (NOT SUPPLIED)
4. INK STAMP 77820, PART NUMBER AND DATE CODE ON INDICATED SURFACE PER 9-3856-5. DATE CODE PER 9-3895, CHARACTERS TO BE .062 ±.020 HIGH.
3. FOR MATING MOTHER BOARD CONNECTOR ASSEMBLY SEE DRAWING HSB-M4-XXDXXXXX.
2. INDICATED DIMENSION IS TO POINT OF MINIMUM ELECTRICAL ENGAGEMENT.
1. POLARIZATION KEYS ARE OPTIONAL. WHEN USING, A QUANTITY OF 2 ARE REQUIRED PER CONNECTOR. INSERT KEYS FROM REAR OF CONNECTOR PRIOR TO MOUNTING CONNECTOR WITH SCREWS (SEE NOTE 5). WHEN USING KEY, MATING CONNECTOR MUST ALSO USE KEYS.

NOTES:

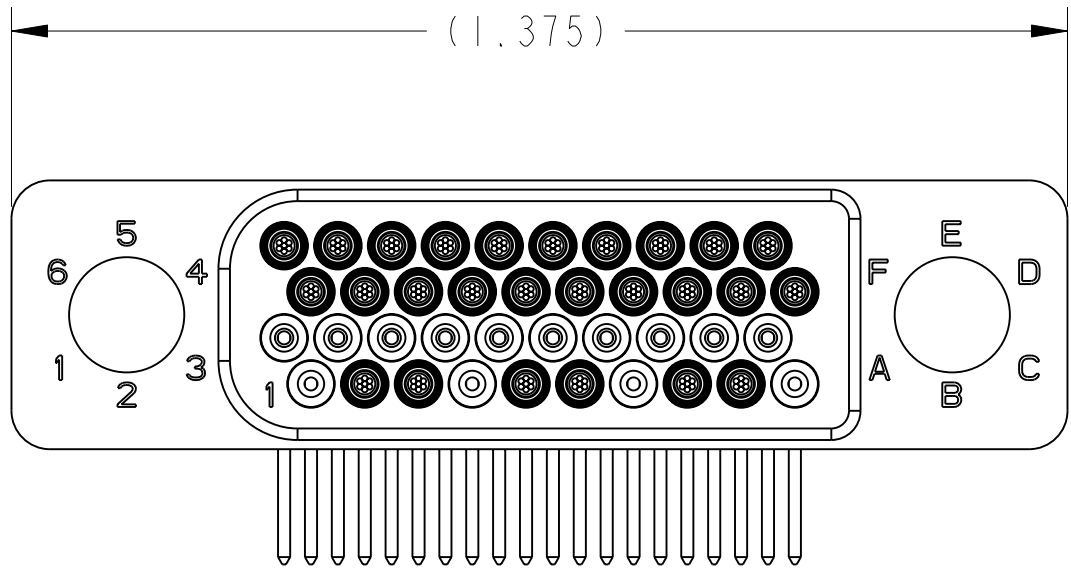
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REPLACEMENT KEY/ LOW PROFILE MOUNTING NUT		
HW ID	TYPE	PART NUMBER
P	POLARIZATION KEY QTY 2	HDB-508804-000
L	LOW PROFILE MOUNTING NUT (QTY 2)	HDB-508804-001

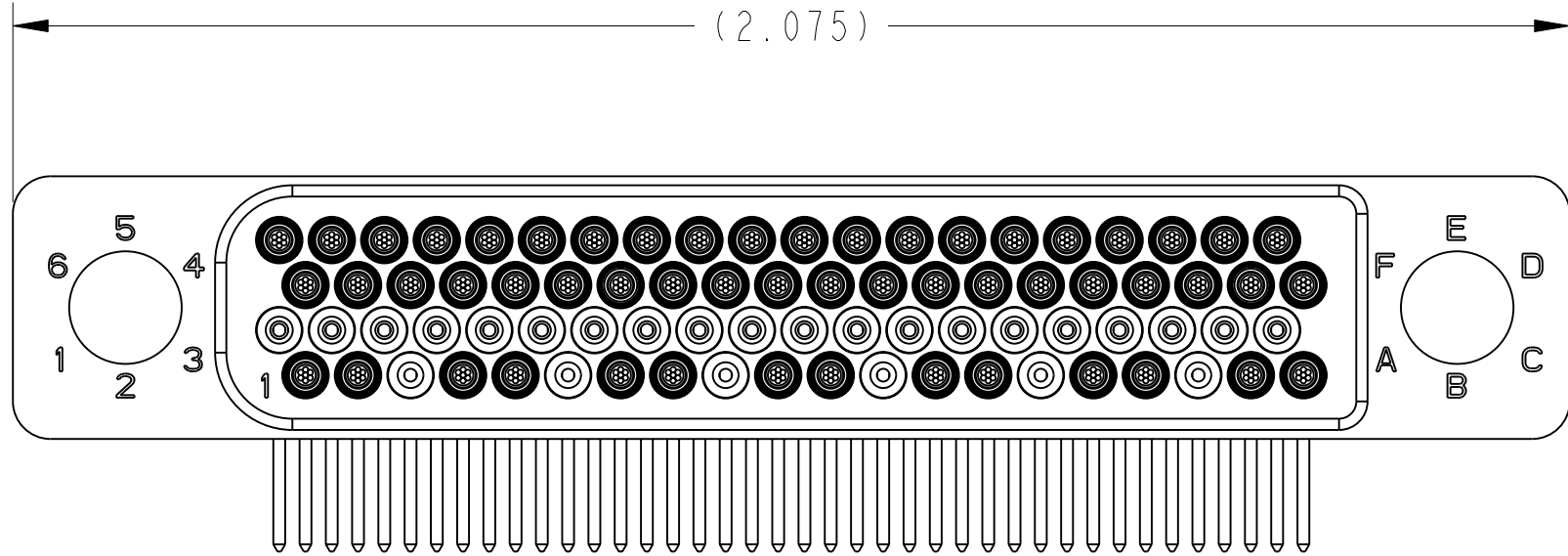
SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	HSB-D4-XXDXXXXX	A
SCALE: 3.0		REF: HSB-D4-XXXXXXX	SHEET 4 OF 5

NOTES:

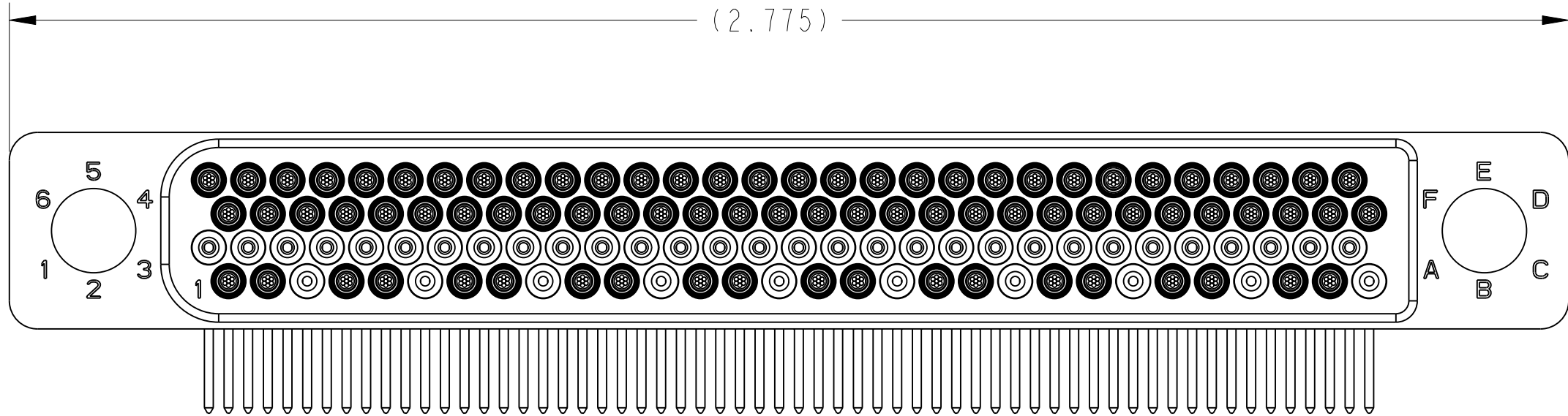
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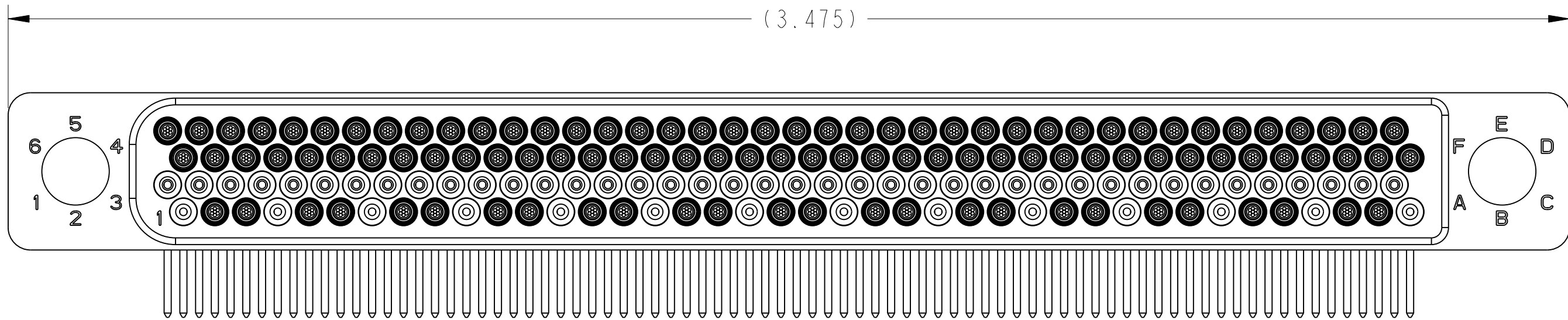
3 DIFFERENTIAL PAIR
SCALE 4.000



7 DIFFERENTIAL PAIR
SCALE 4.000



10 DIFFERENTIAL PAIR
SCALE 4.000



13 DIFFERENTIAL PAIR
SCALE 4.000