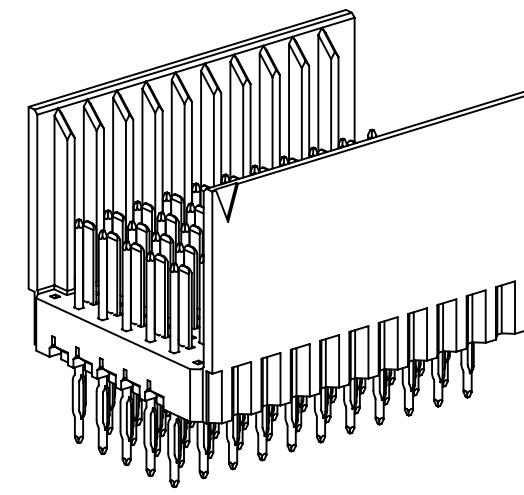
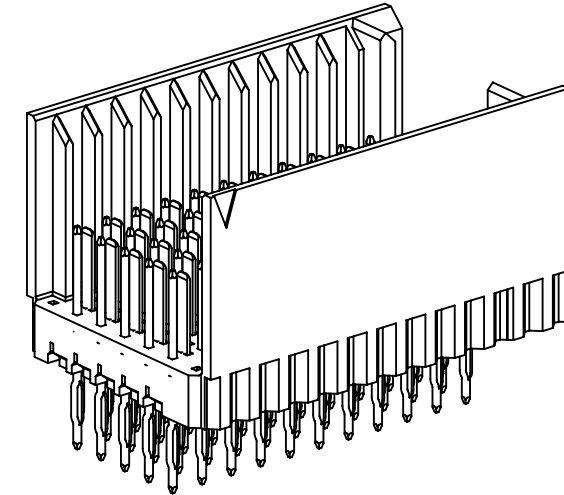




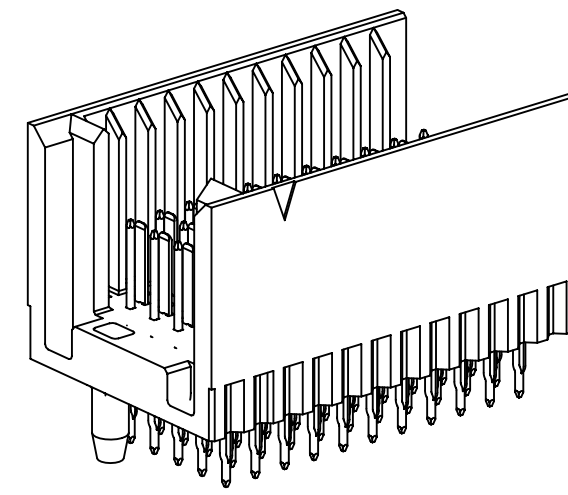
3M™ HSHM PRESS-FIT HEADER, 5-ROW, HSHM SERIES  
FOR HIGH SPEED HARD METRIC APPLICATIONS



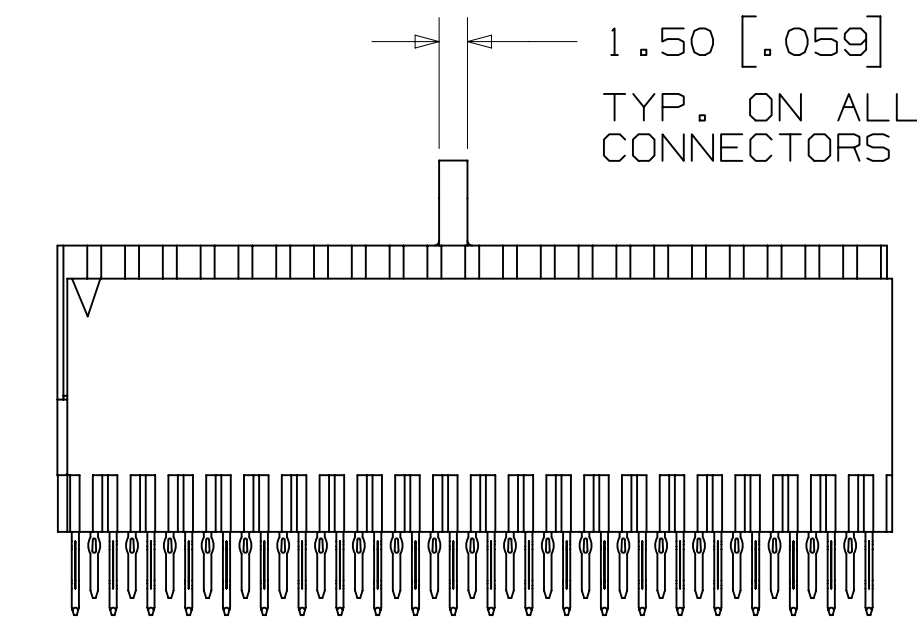
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TYPE B11, 55 SIGNAL CONTACTS



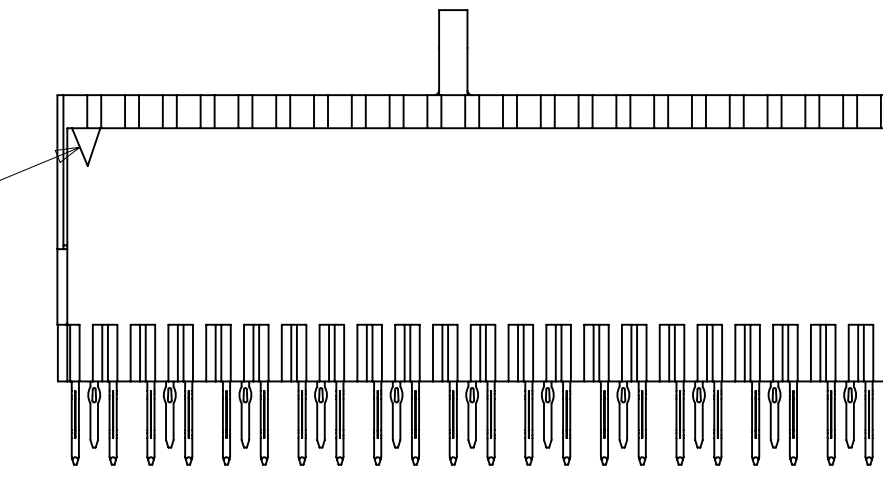
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TYPE CL, 55 SIGNAL CONTACTS



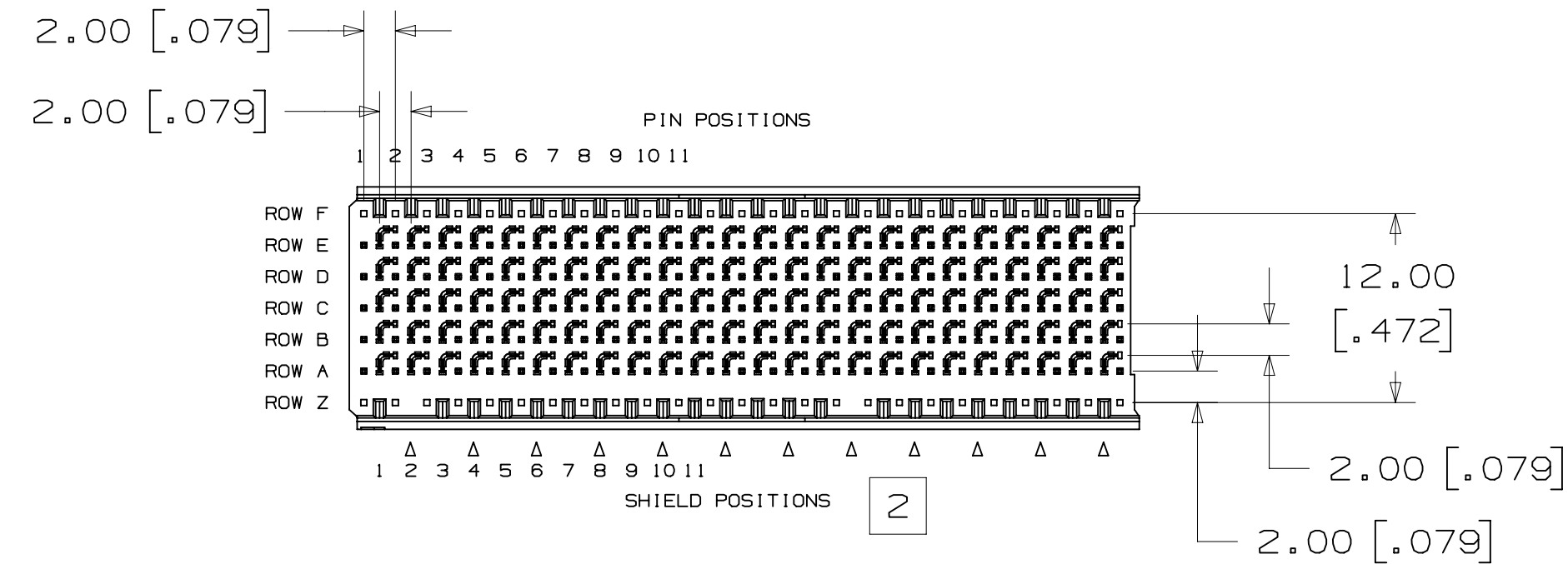
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TYPE CR, 55 SIGNAL CONTACTS



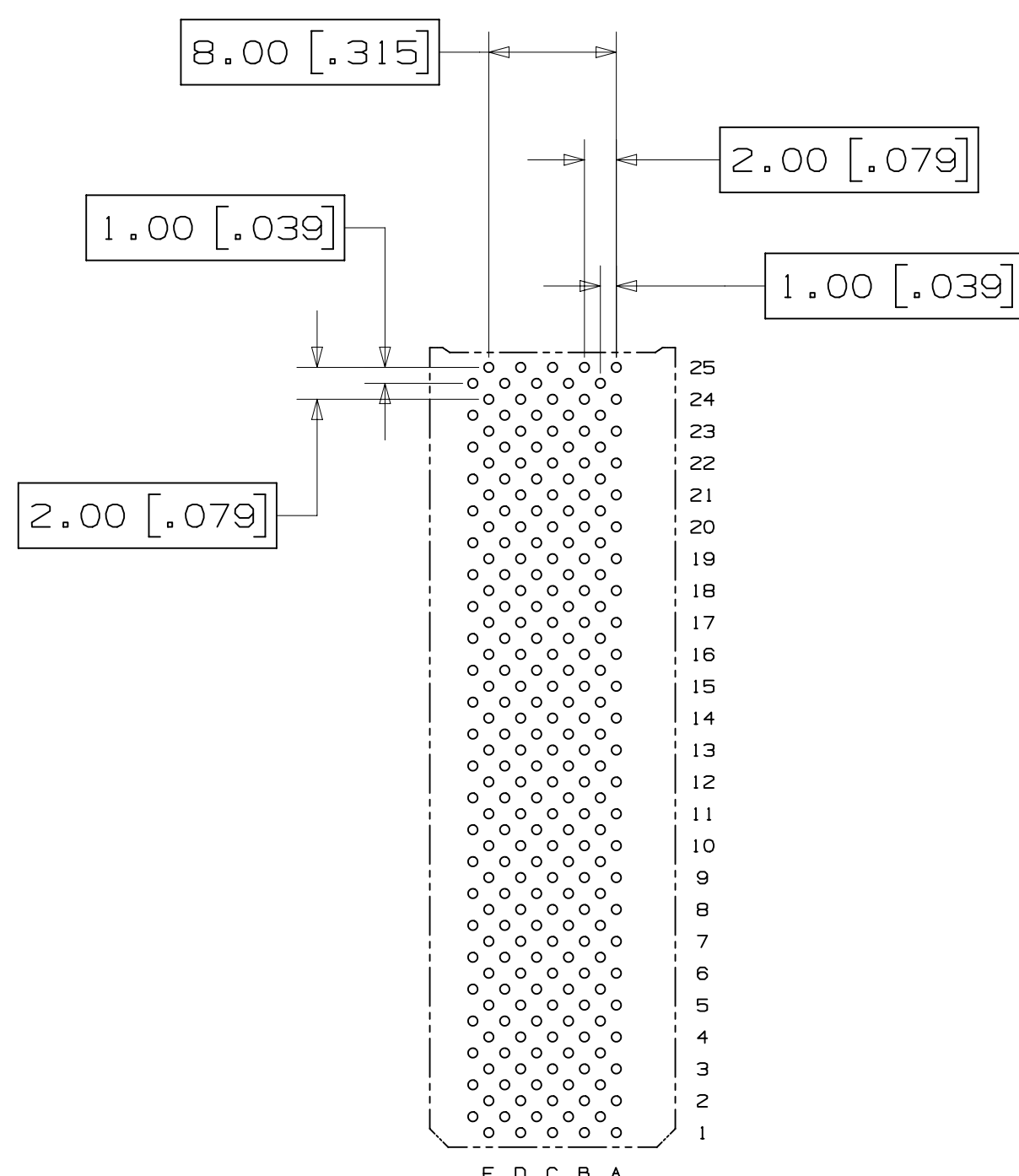
1 COAXIAL, COLUMN DIFFERENTIAL AND STRIPLINE CONFIGURATION (SHOWN WITH PROTECTIVE CAPS)



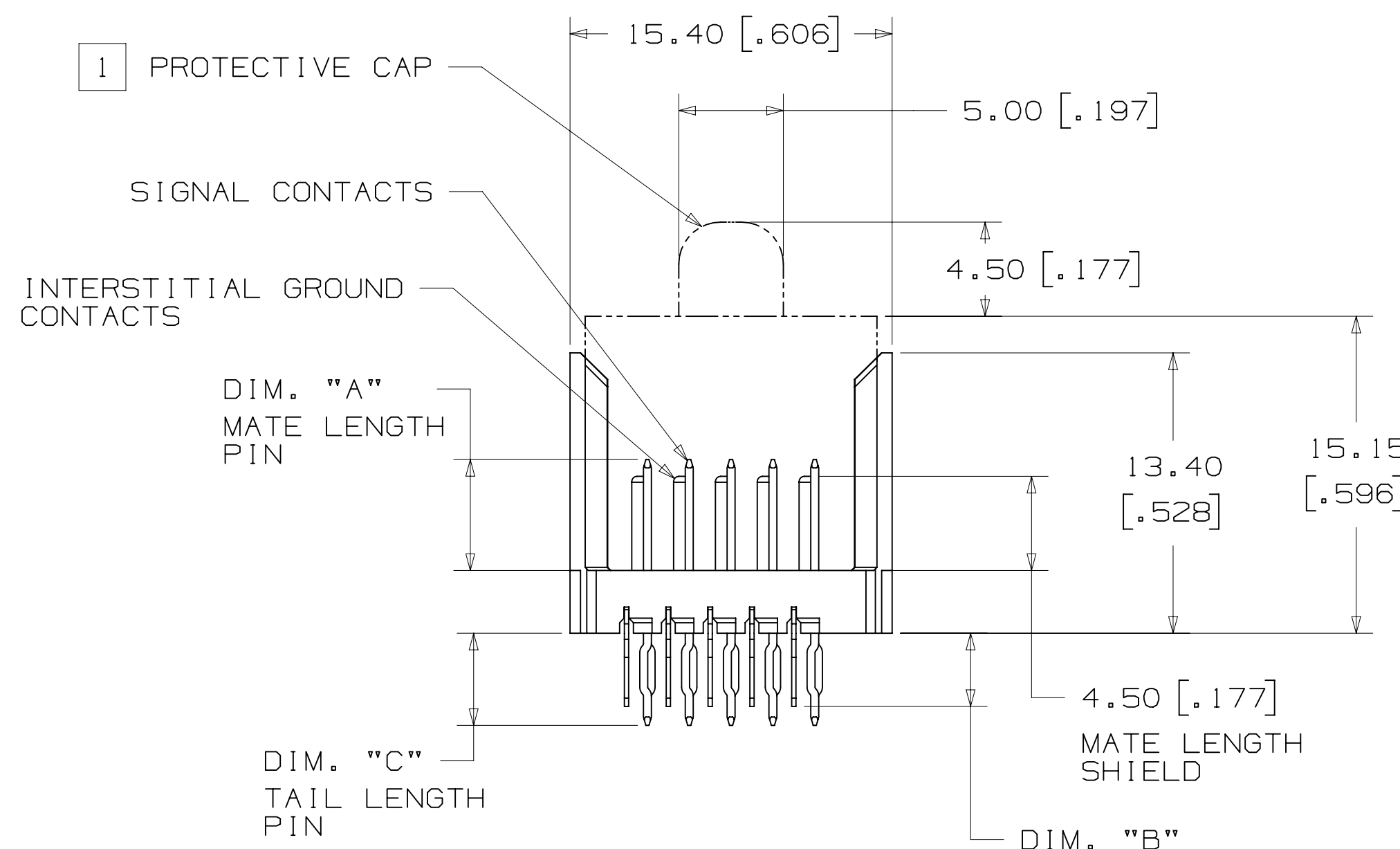
1 ROW DIFFERENTIAL CONFIGURATION (SHOWN WITH PROTECTIVE CAPS)



TYPICAL TOP VIEW DIMENSIONS FOR THE HEADERS ON THIS DRAWING



TYPICAL HOLE PATTERN DIMENSIONS FOR THE CONNECTORS ON THIS DRAWING



TYPICAL SIDE VIEW DIMENSIONS FOR THE HEADERS ON THIS DRAWING

STANDARD CONFIGURATION

DIM. "A"	5.3 [.21]	FOR ROWS A THRU E
DIM. "B"	TABULATED	SEE ORDERING INFO
DIM. "C"	TABULATED	SEE ORDERING INFO

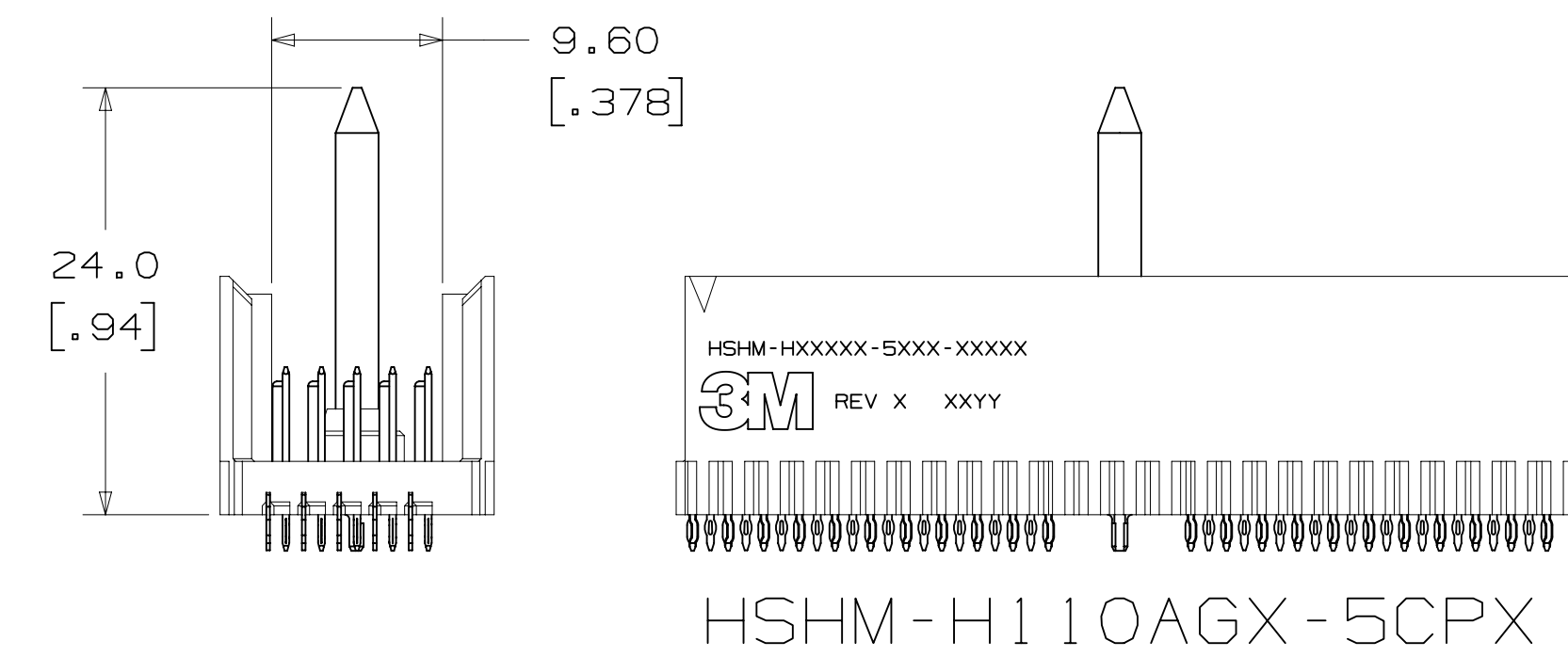
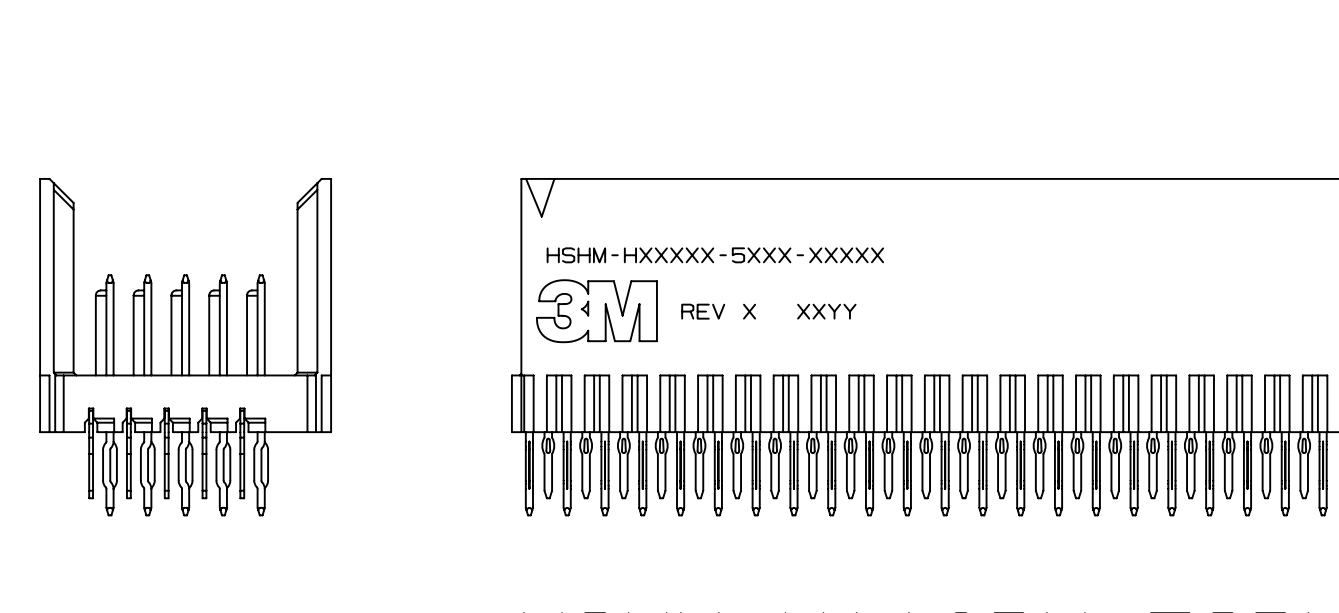
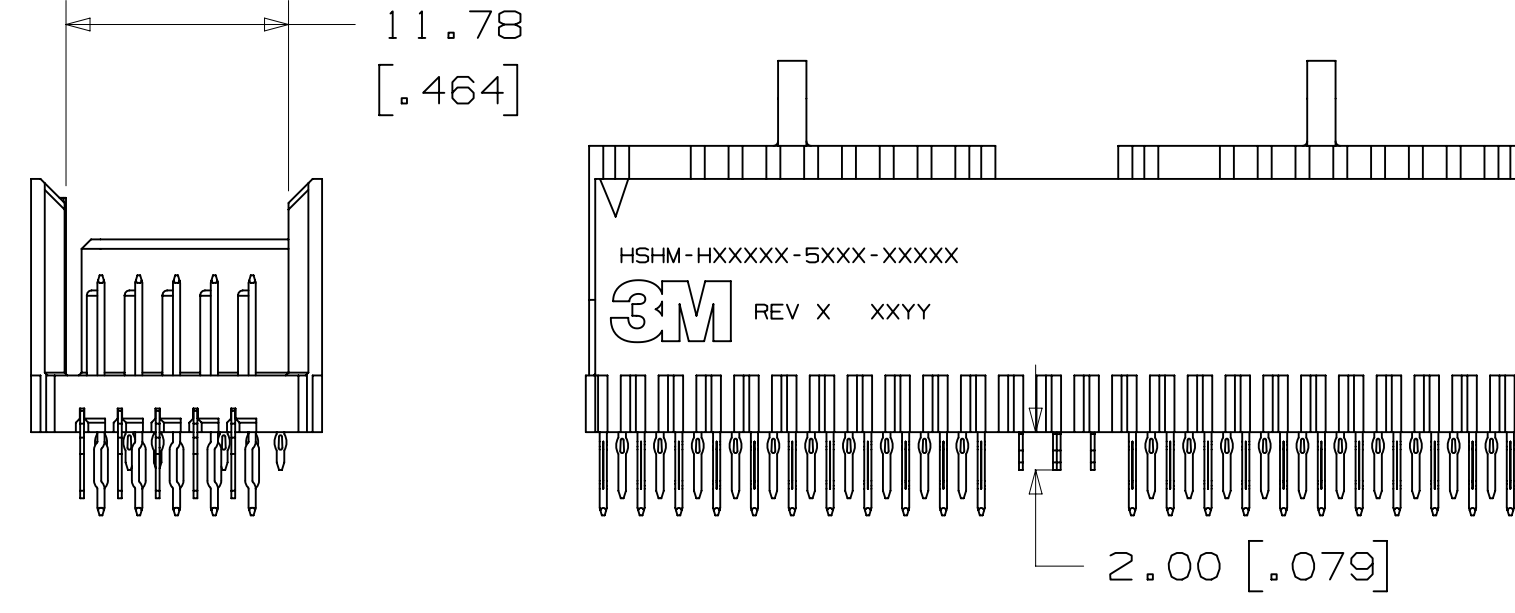
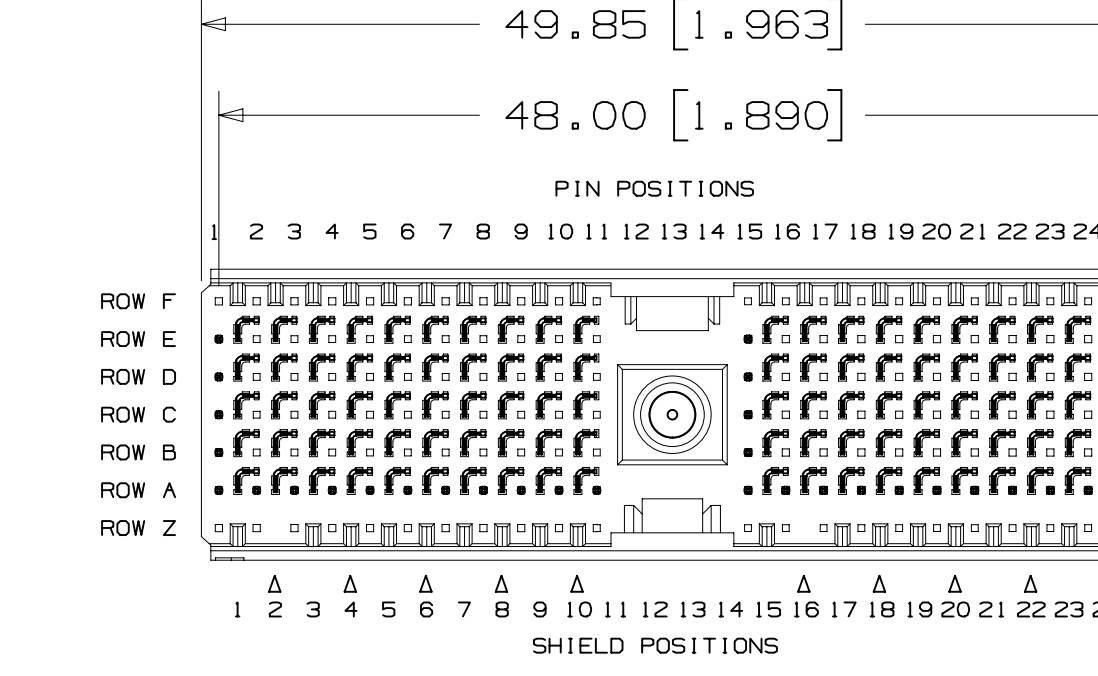
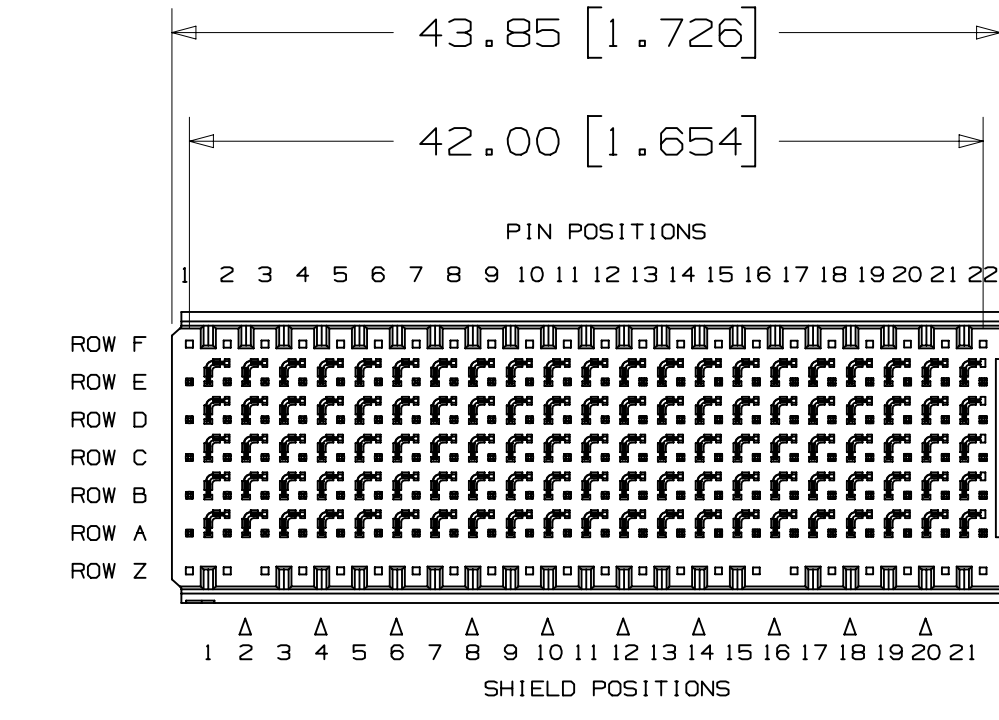
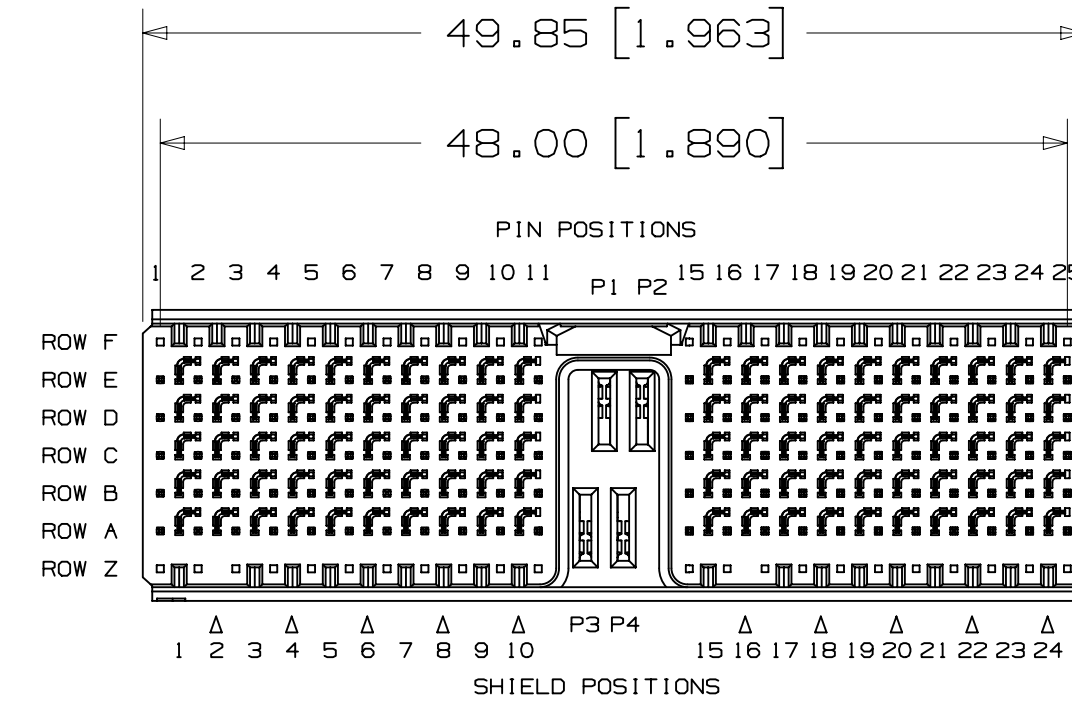
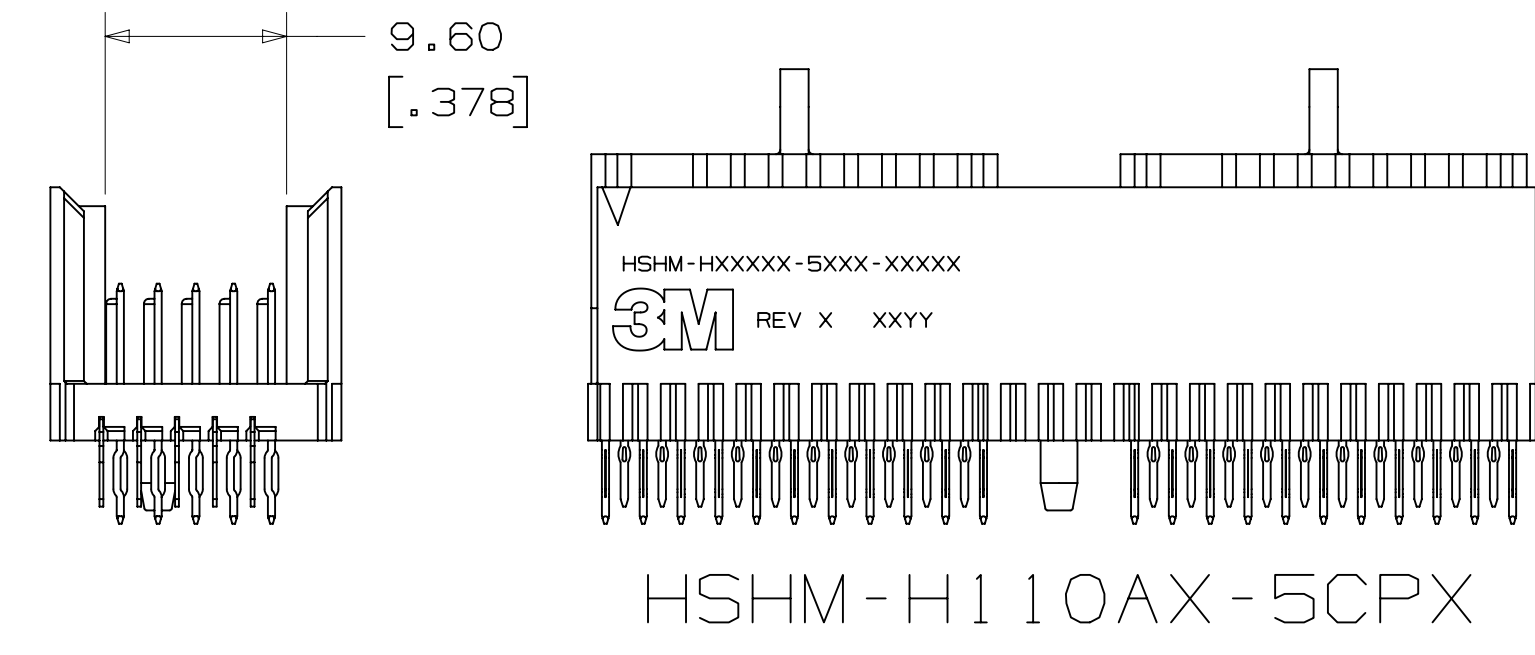
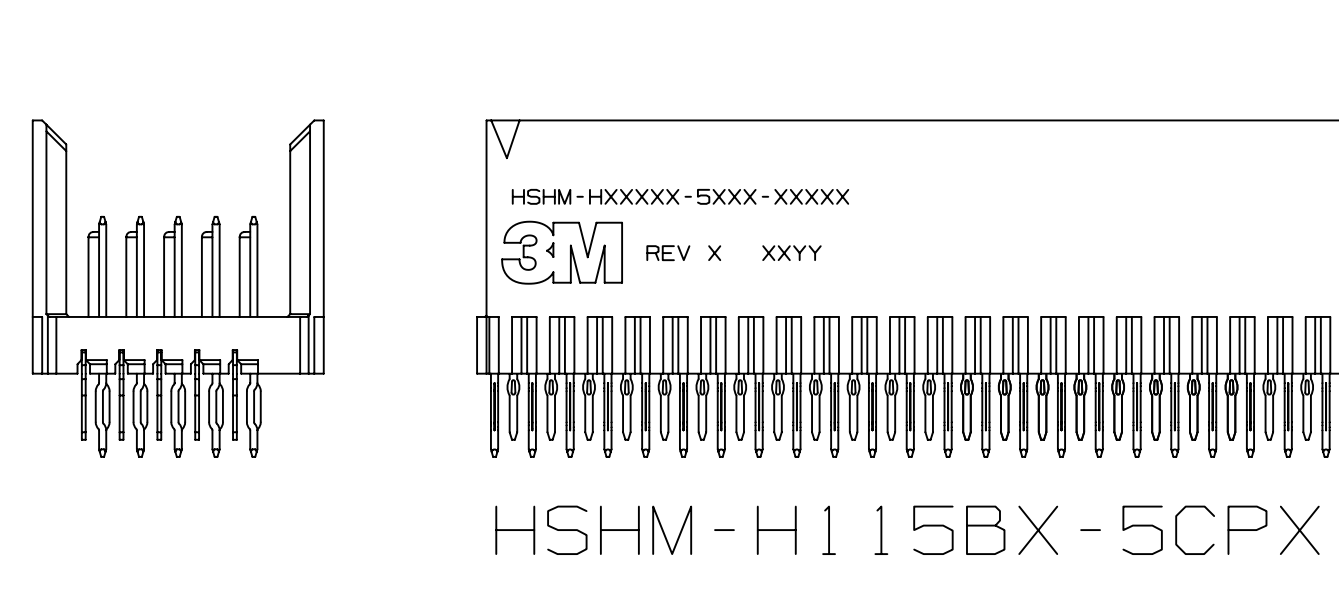
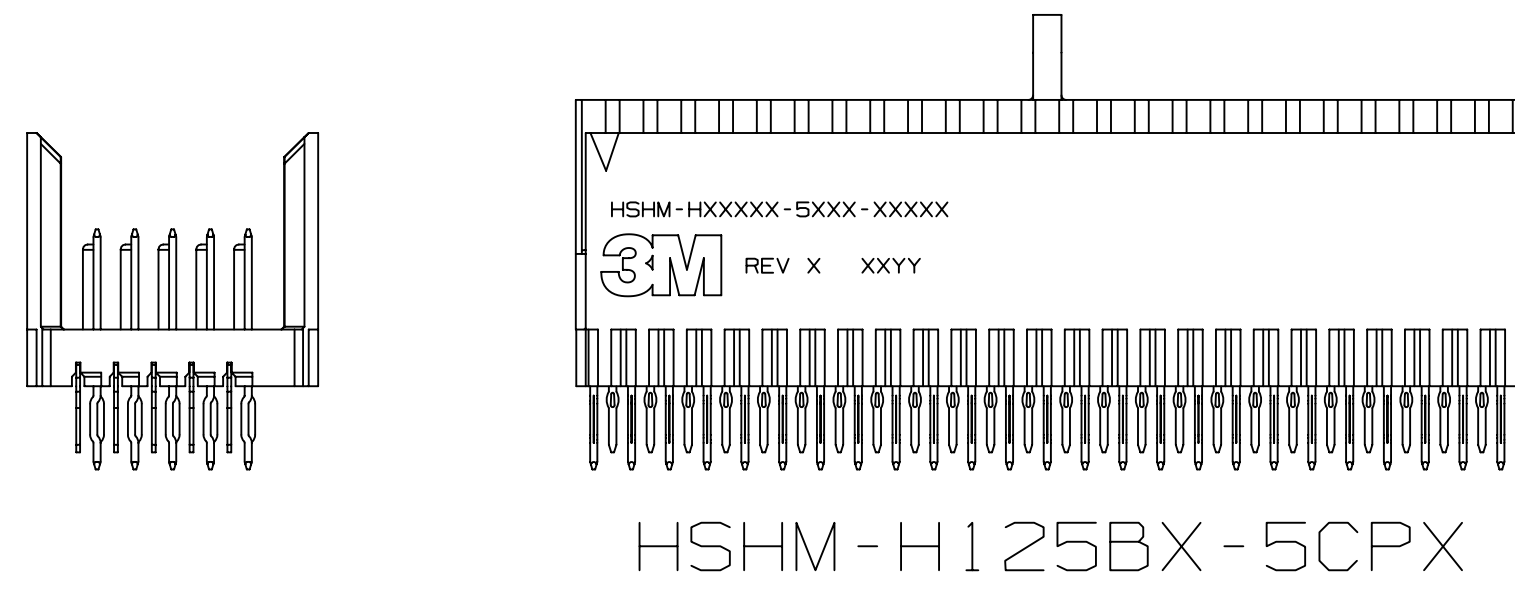
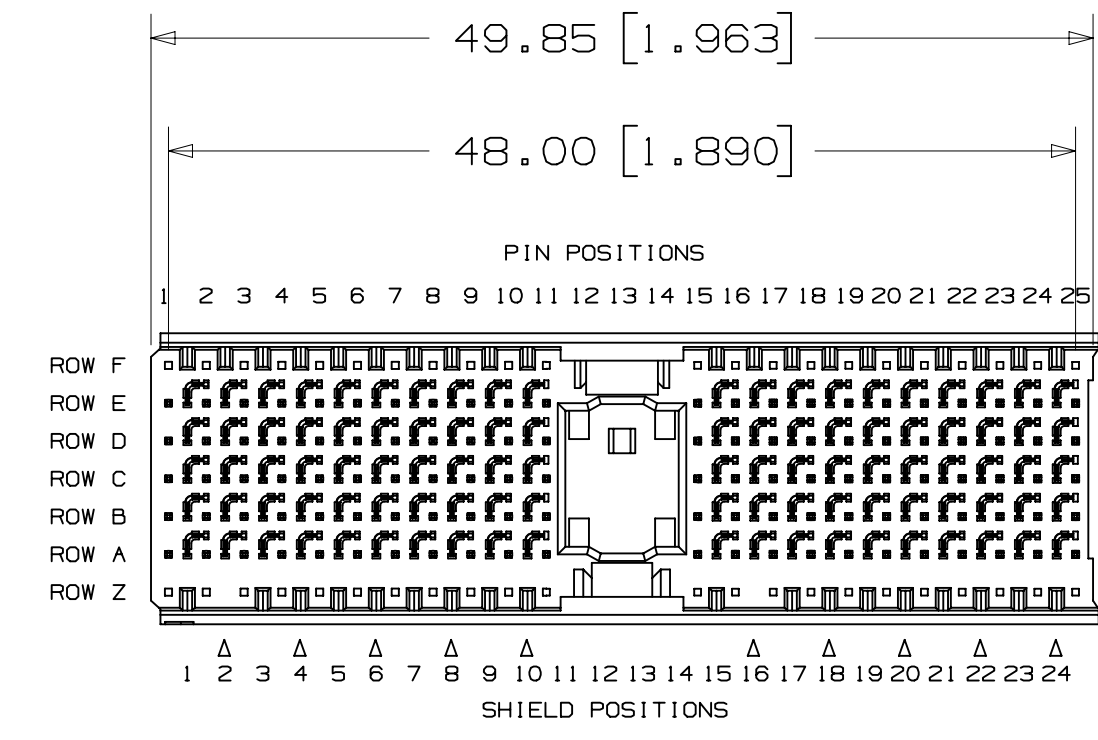
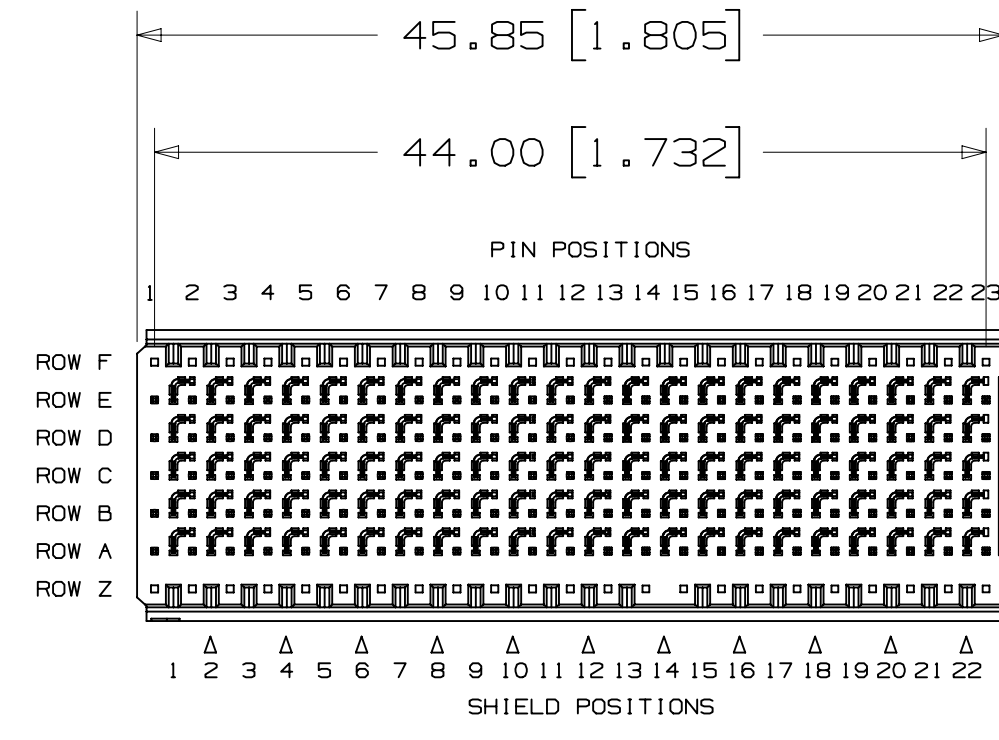
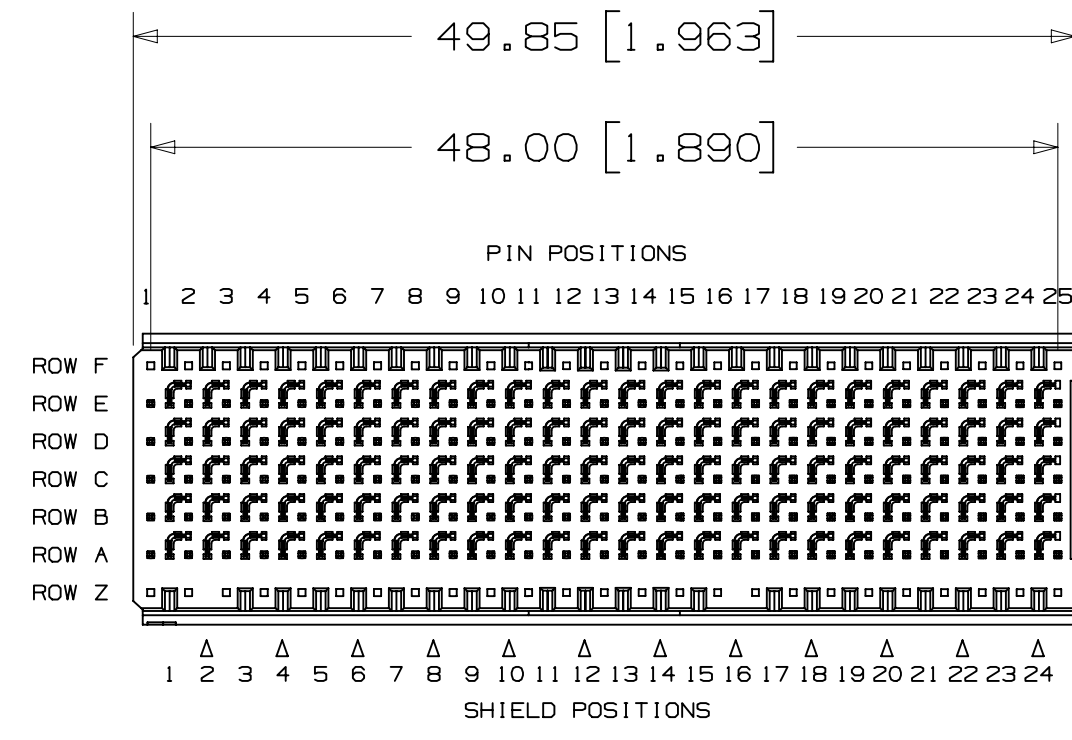
FOR NON-STANDARD CONFIGURATIONS CONTACT A 3M SALES REPRESENTATIVE

- NOTES
- 1 CAPS TO BE REMOVED AFTER PRESS-FIT INSTALLATION PROCESS.
  - 2 ▲ DENOTES SHIELD COLUMN (TAIL ONLY) OMITTED FOR THE ROW DIFFERENTIAL PAIR PART.

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD										
		CASTIGLIONE	SEP 17, 2013	MFG												
DIVISION	DIVISION CODE	CHKD	DATE	APPRV	DATE											
Interconnect Solutions	ISD			T. SUNIGA	SEP 17, 2013											
DO NOT SCALE DRAWING	SCALE 5/2	TOLERANCES EXCEPT AS NOTED														
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	<table border="1"> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>.0</td> <td>±</td> </tr> <tr> <td>.00</td> <td>±</td> </tr> <tr> <td>.000</td> <td>± .005</td> </tr> <tr> <td>.0000</td> <td>± .0002</td> </tr> </table>		INCHES		.0	±	.00	±	.000	± .005	.0000	± .0002	TITLE HSHM PRESS-FIT HEADER, 2MM, 5-ROW, HSHM SERIES		
INCHES																
.0	±															
.00	±															
.000	± .005															
.0000	± .0002															
MAX SURFACE ROUGHNESS	DT SURFACES	MILLIMETERS		CAGE NUMBER D 78-5100-2633-5												
MARKED ONLY	ANGLES	<table border="1"> <tr> <td>0</td> <td>±</td> </tr> <tr> <td>.0</td> <td>± .3</td> </tr> <tr> <td>.00</td> <td>± .13</td> </tr> <tr> <td>.000</td> <td>±</td> </tr> </table>		0	±	.0	± .3	.00	± .13	.000	±	MODEL HSHM				
0	±															
.0	± .3															
.00	± .13															
.000	±															

78-5100-2633-5  
 DRAWING NUMBER  
 B  
 REVISION  
 6/6/2016 8:05 AM UTC-05:00  
 1  
 REV.

3M™ HSHM PRESS-FIT HEADER, 5-ROW, HSHM SERIES  
FOR HIGH SPEED HARD METRIC APPLICATIONS



HSHM-H110APWRX-5CPX

HSHM-H110BX-5CPX

HSHM-H110AGX-5CPX

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
B	67459	MAY 16, 2016 ADD HSHM-H110AGX, REVISE DIVISION NAME	JNC	WL
A	50065	SEP 17, 2013 PRODUCTION RELEASE	JNC	TS
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
CHKD	CASTIGLIONE	SEP 17, 2013	MFG	DATE
		DATE	APPRV	DATE
			T. SUNIGA	SEP 17, 2013

DESIGN REFERENCE	NEXT ASSEMBLY
DO NOT SCALE DRAWING	SCALE 5/2
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009
MAX SURFACE ROUGHNESS	SURFACES
MARKED ONLY	
TOLERANCES EXCEPT AS NOTED	
INCHES	
MILLIMETERS	
ANGLES	

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3M Center St. Paul, MN 55144

TITLE  
HSHM PRESS-FIT HEADER, 2MM, 5-ROW, HSHM SERIES

CAGE NUMBER  
D 78-5100-2633-5

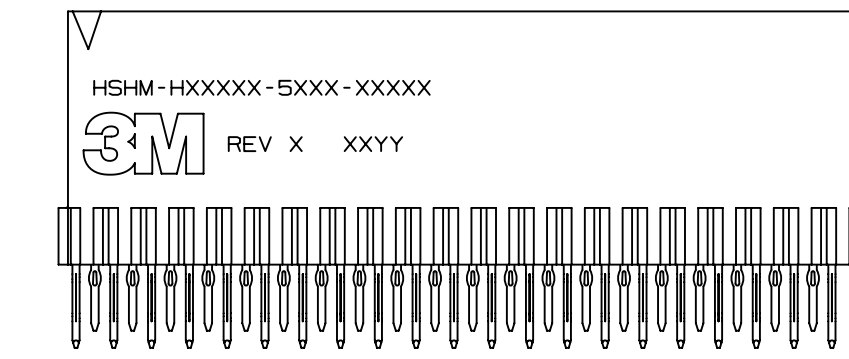
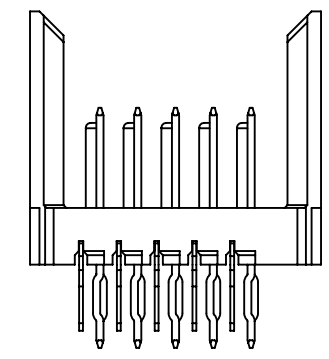
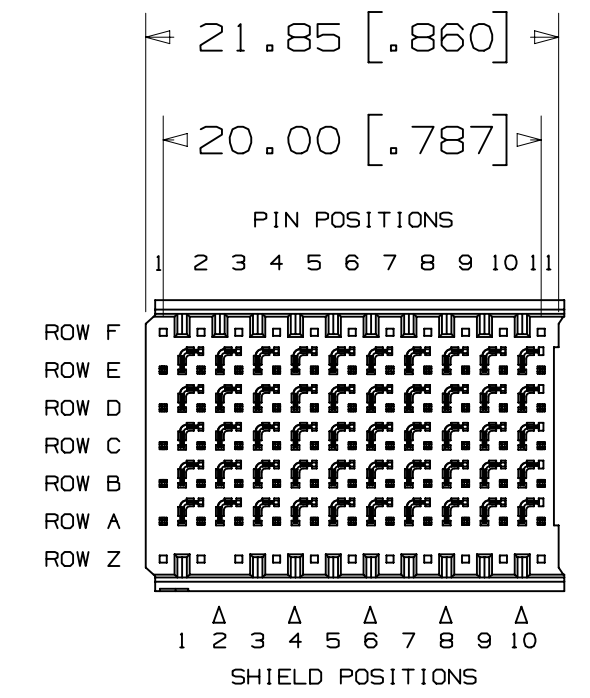
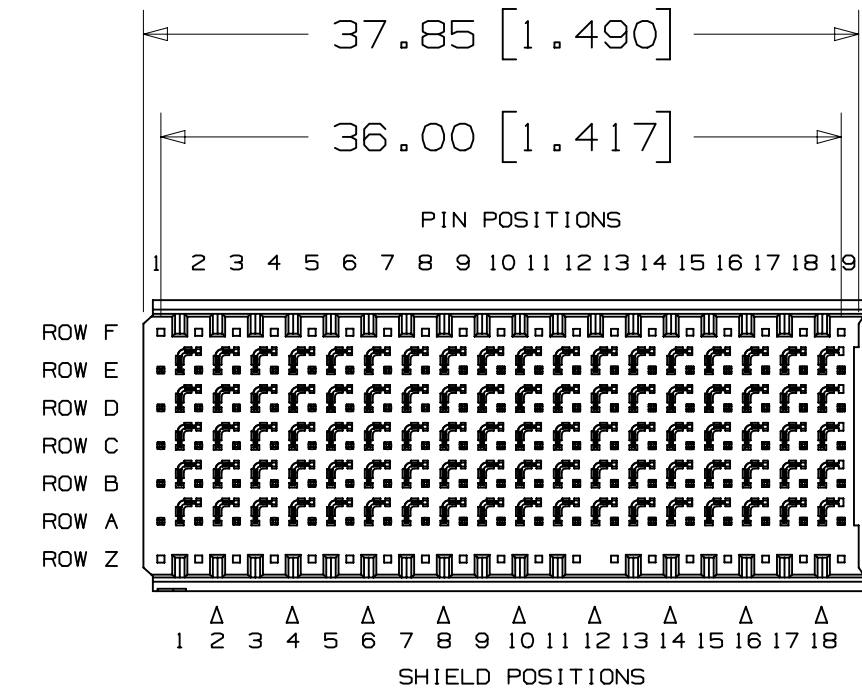
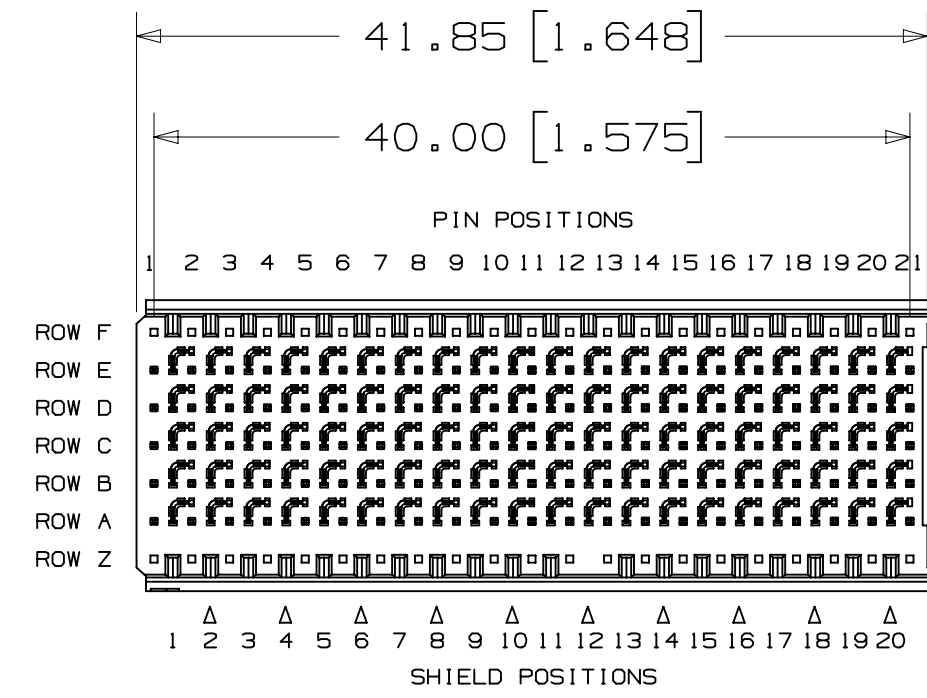
MODEL  
HSHM

REV. B

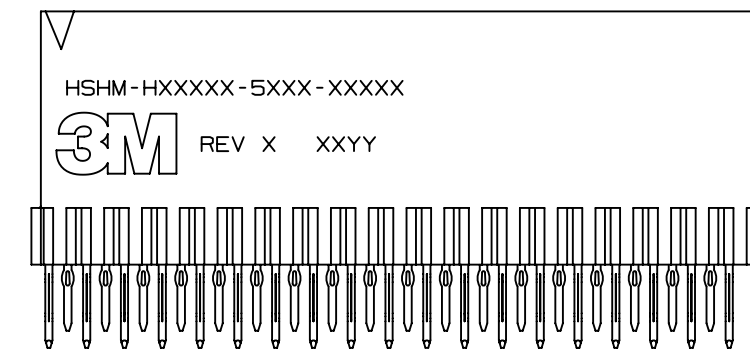
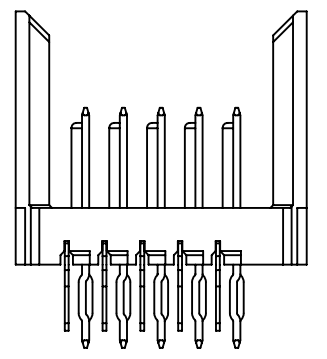
SHT 3 OF 6

B REVISION  
 78-5100-2633-5 DRAWING NUMBER  
 B  
 A  
 Image: B.3 6/6/2016 8:05 AM UTC-05:00

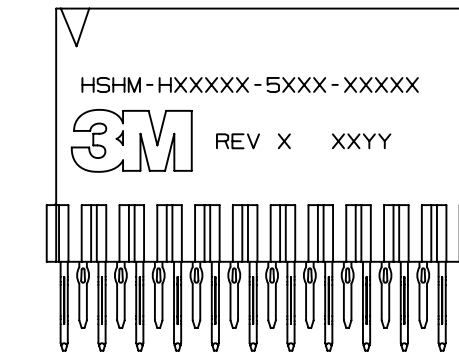
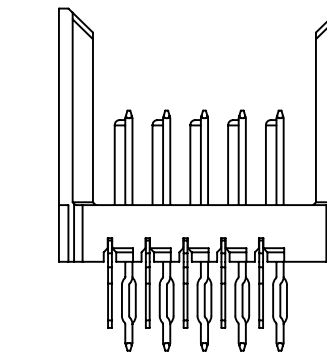
3M™ HSHM PRESS-FIT HEADER, 5-ROW, HSHM SERIES  
FOR HIGH SPEED HARD METRIC APPLICATIONS



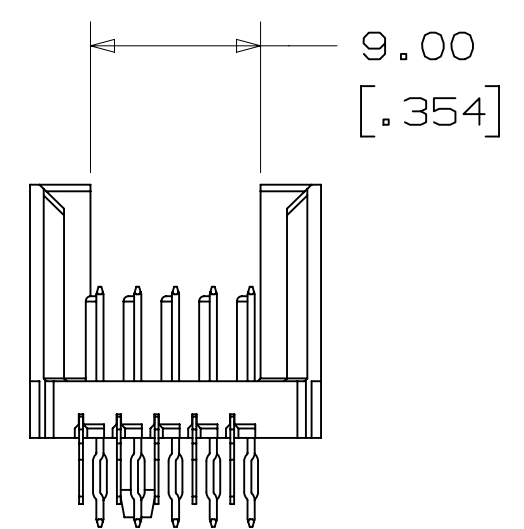
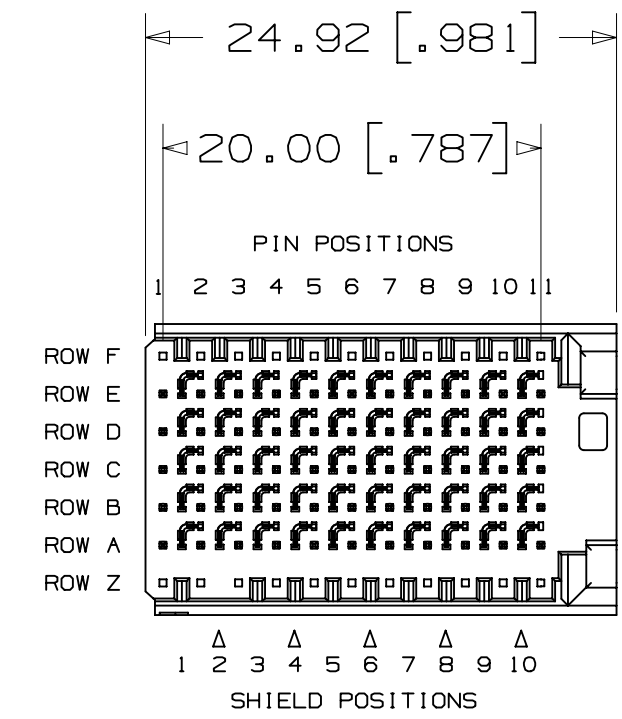
HSHM-H105BX-5CPX



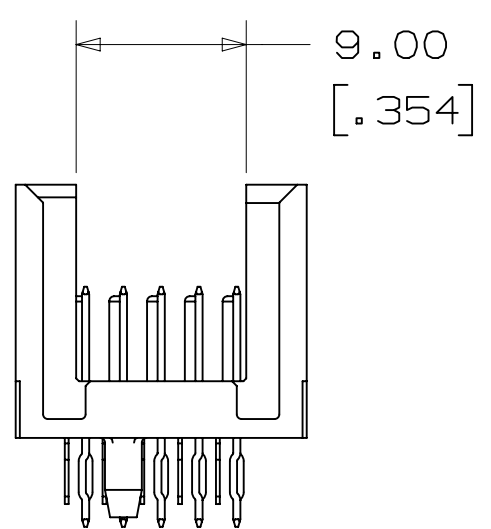
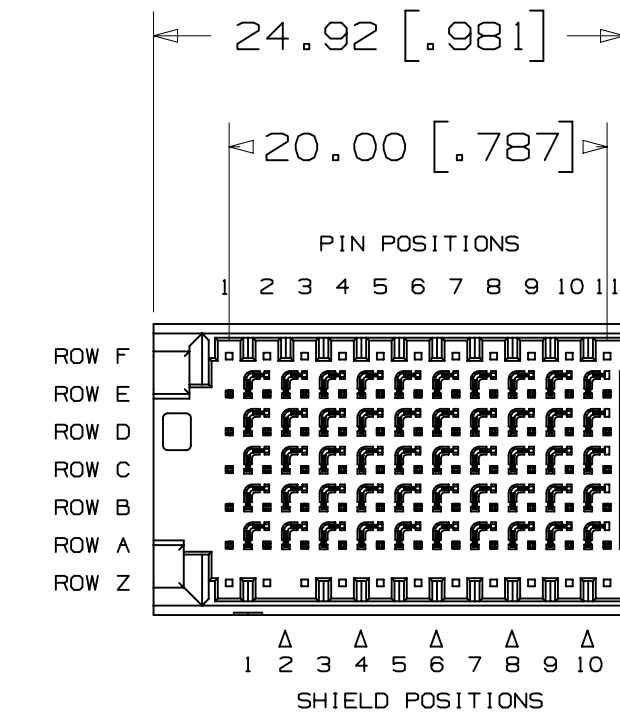
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HSHM-H055BX-5CPX



HSHM-H055CLX-5CPX



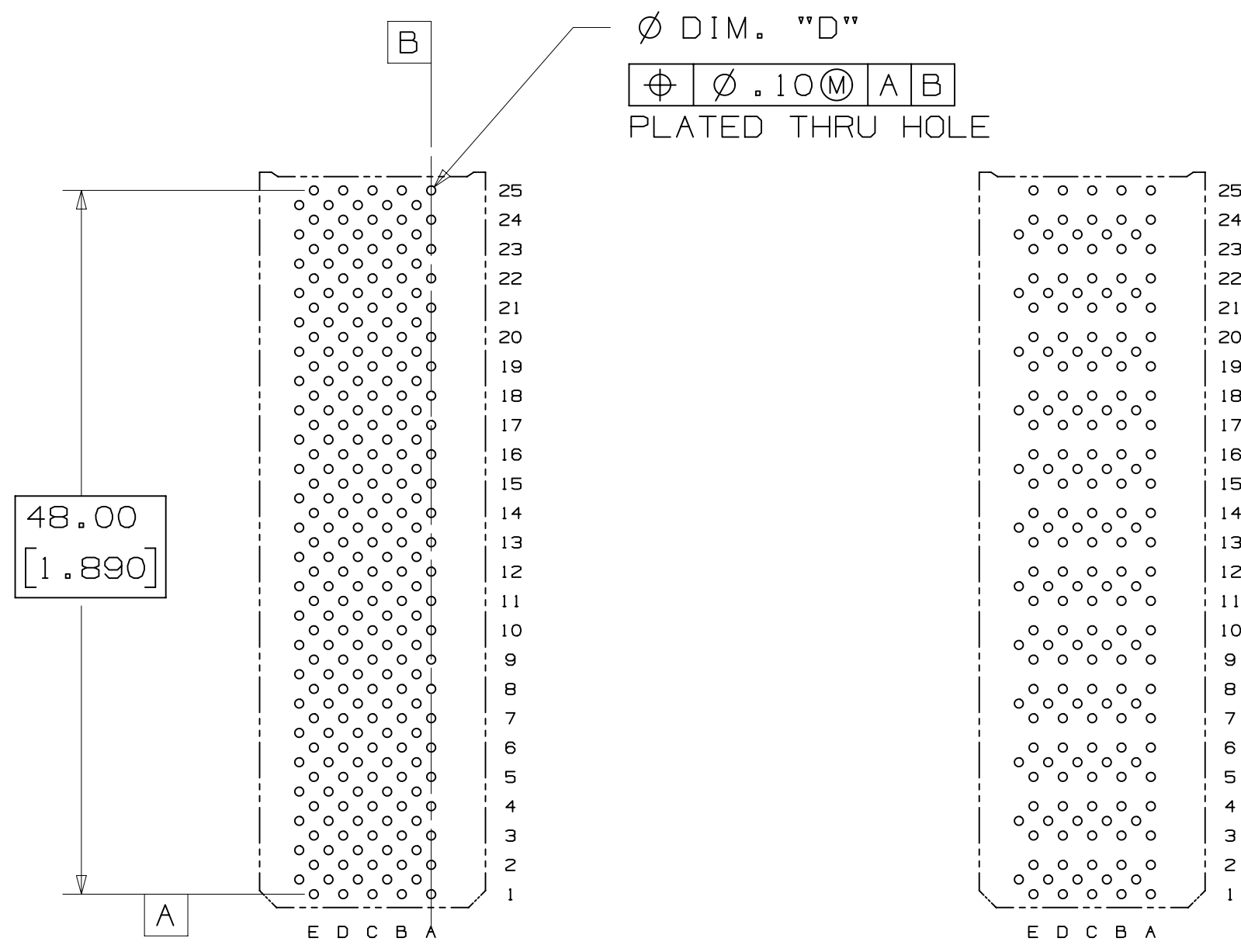
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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				SEP 17, 2013		
DIVISION		DIVISION CODE		DATE		
Interconnect Solutions		ISD		SEP 17, 2013		
DO NOT SCALE DRAWING	SCALE 5/2	TOLERANCES EXCEPT AS NOTED		DATE		
THIRD ANGLE PROJECTION		INCHES		DATE		
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		DATE		
MAX SURFACE ROUGHNESS		INCHES		DATE		
SURFACES		MILLIMETERS		DATE		
MARKED ONLY		ANGLES		DATE		
		CAGE NUMBER		REV.		
		D78-5100-2633-5		B		
		MODEL		SHT 4 OF 6		
		HSHM				

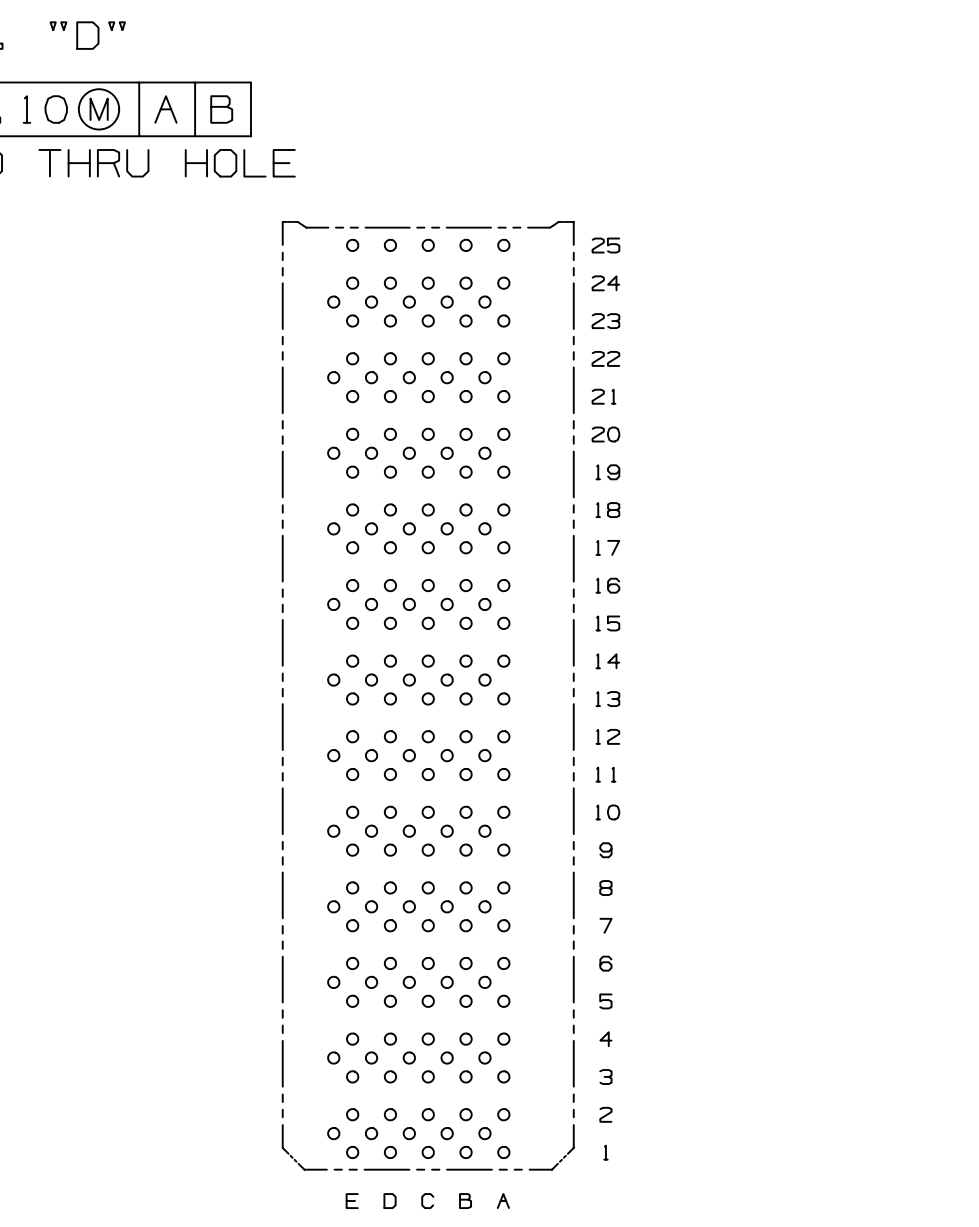
B REVISION  
 78-5100-2633-5 DRAWING NUMBER  
 B  
 A  
 Image: B.3 6/6/2016 8:05 AM UTC-05:00

3M™ HSHM PRESS-FIT HEADER, 5-ROW, HSHM SERIES  
FOR HIGH SPEED HARD METRIC APPLICATIONS

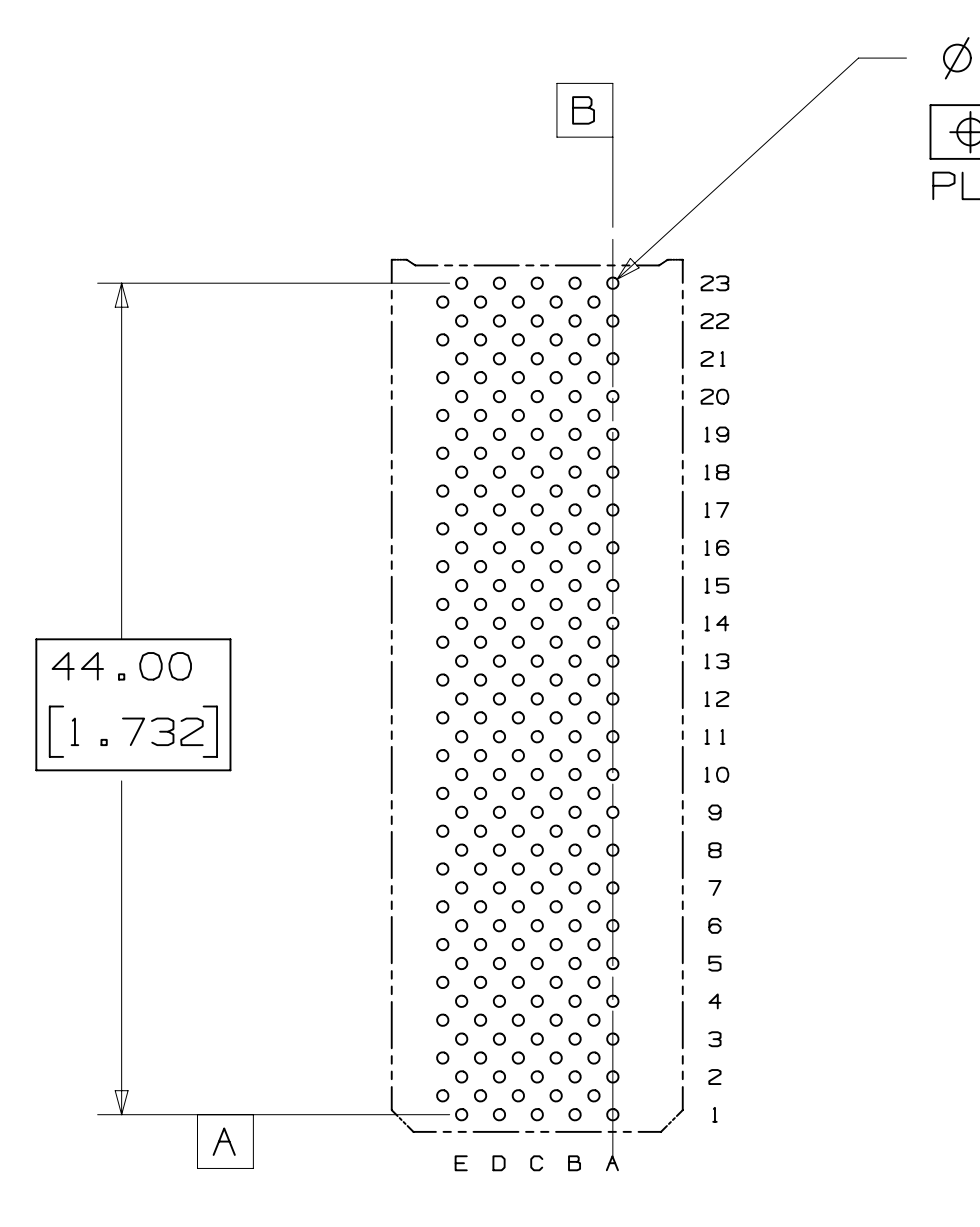
HOLE PLATING TABLE			
HOLE	(FINISHED HOLE)	Cu THICKNESS	SnPb THICKNESS
DIM. "D"	.457-.559 [.0180-.0220]	.025-.045 [.0010-.0018]	.008-.018 [.0003-.0007]
DIM. "F"	.690-.790 [.0270-.0310]	.025-.045 [.0010-.0018]	.008-.018 [.0003-.0007]
			DRILLED HOLE DIA.
			.584-.625 [.0230-.0246]
			.810-.860 [.0318-.0339]



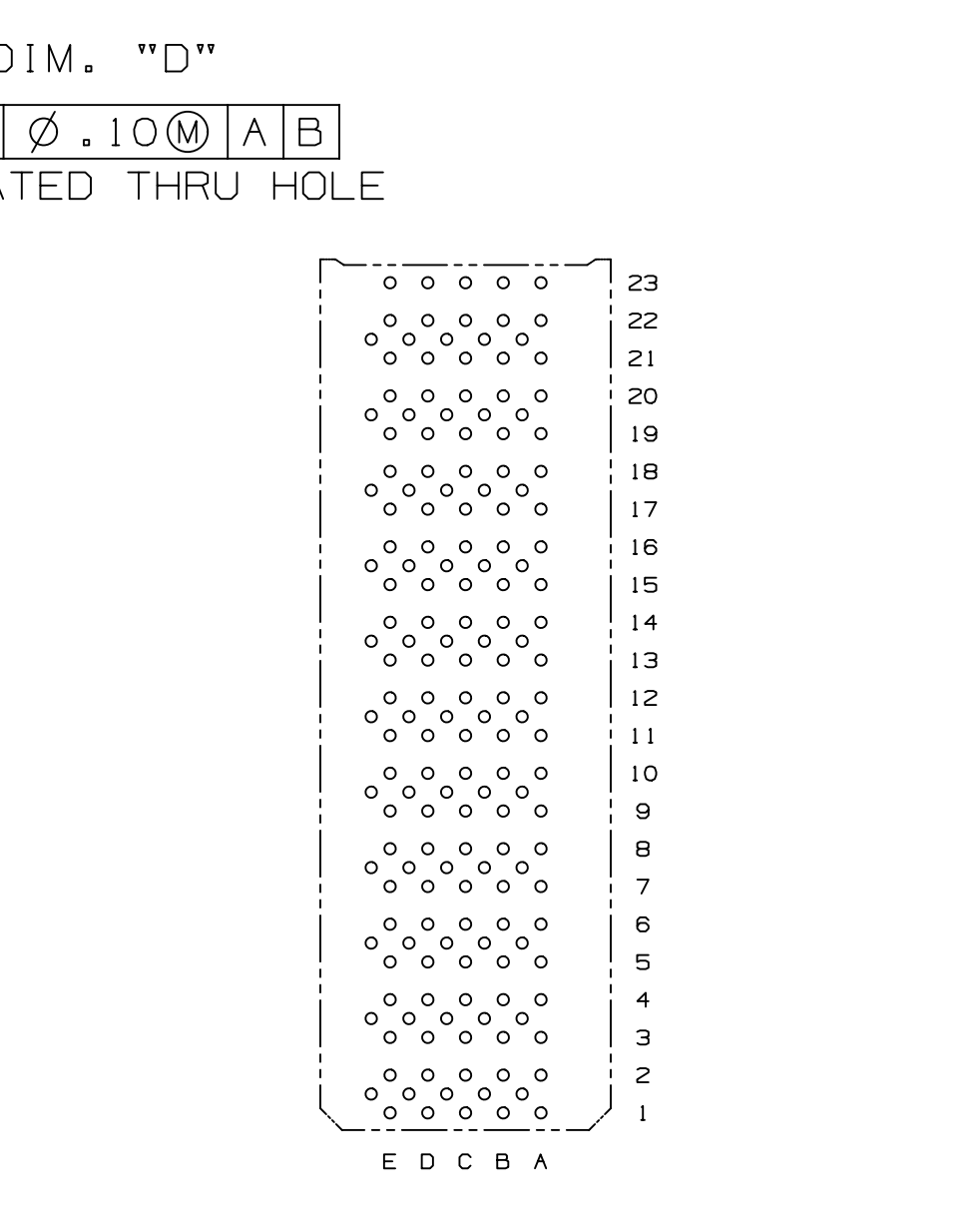
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COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS



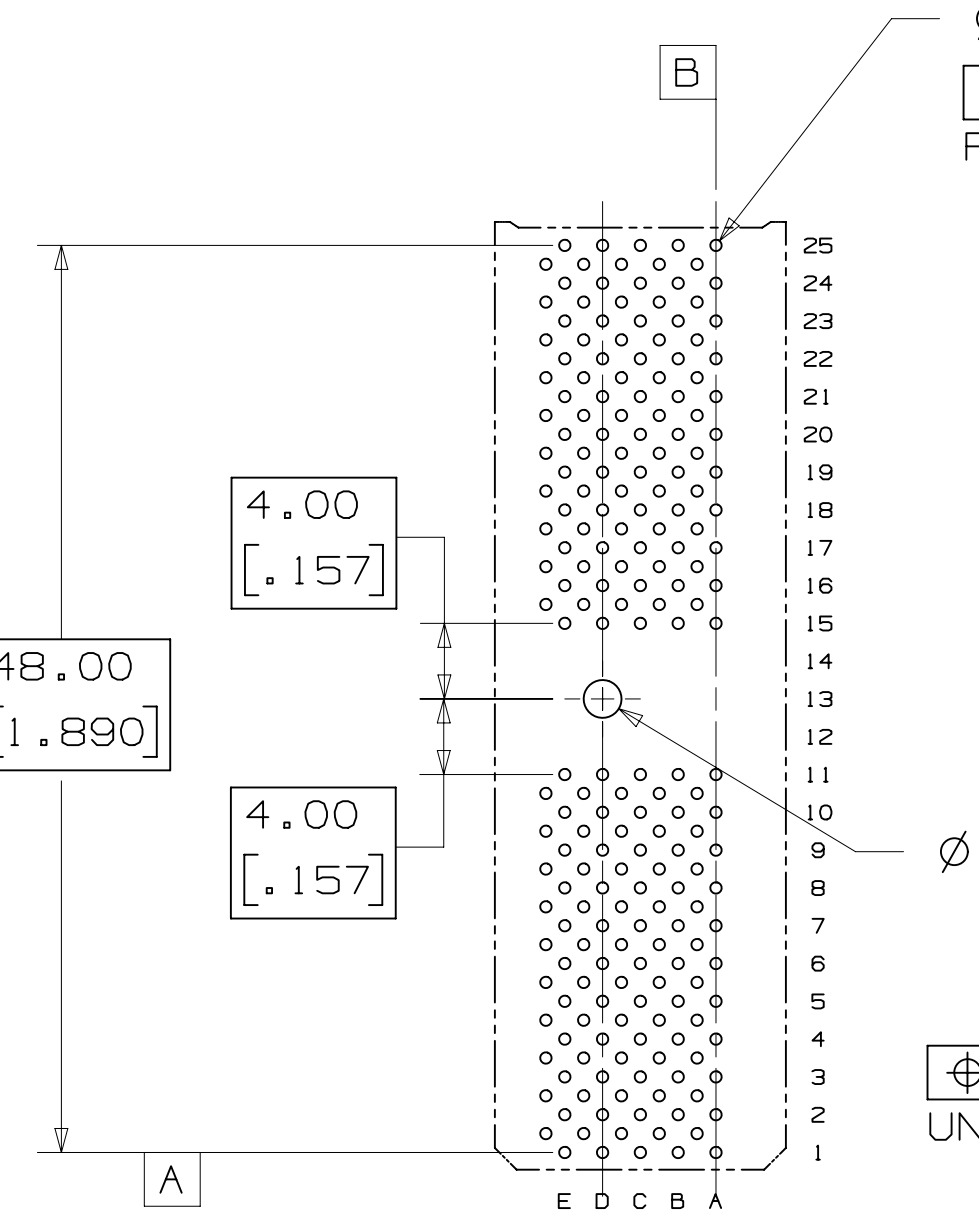
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ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)



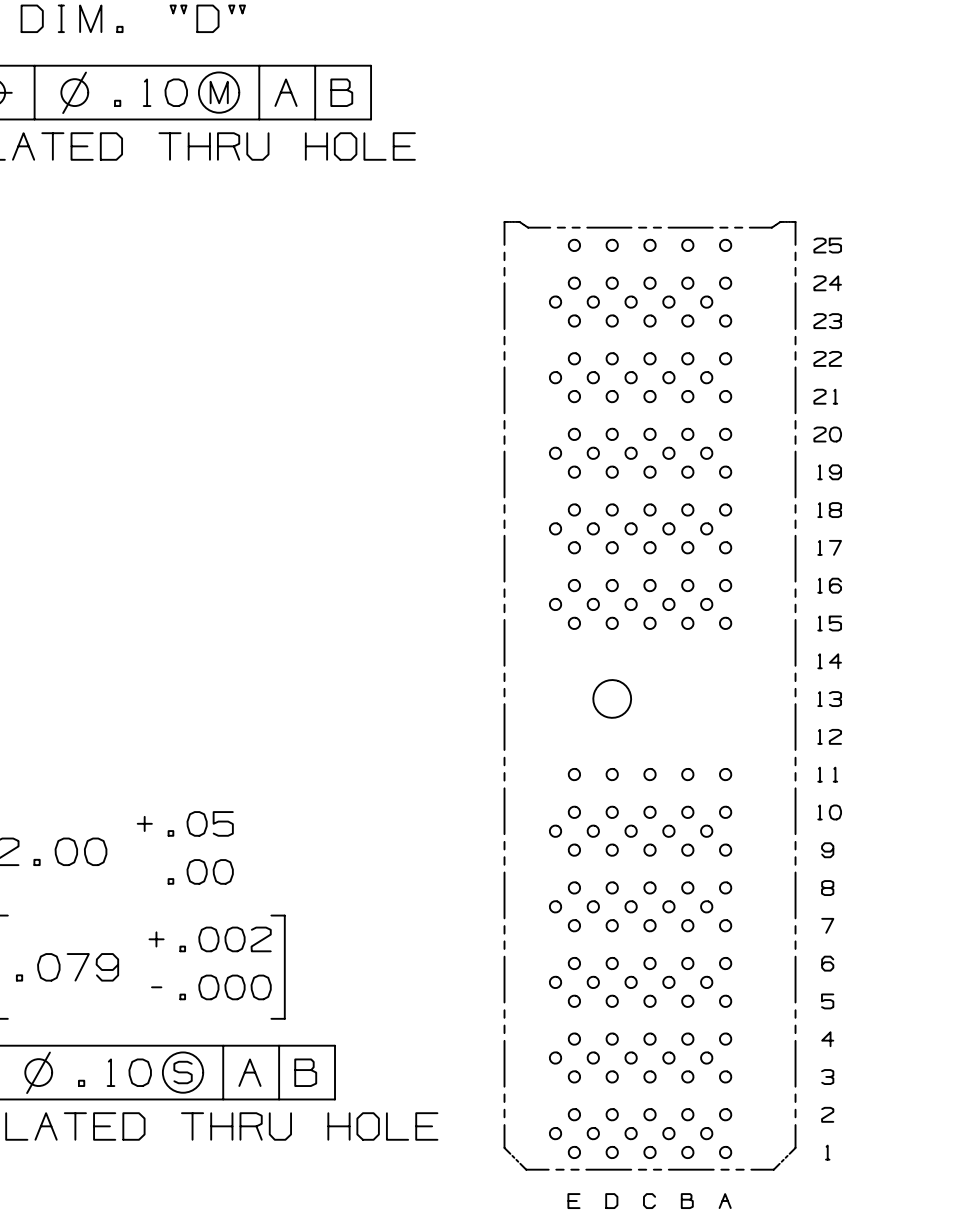
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COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS



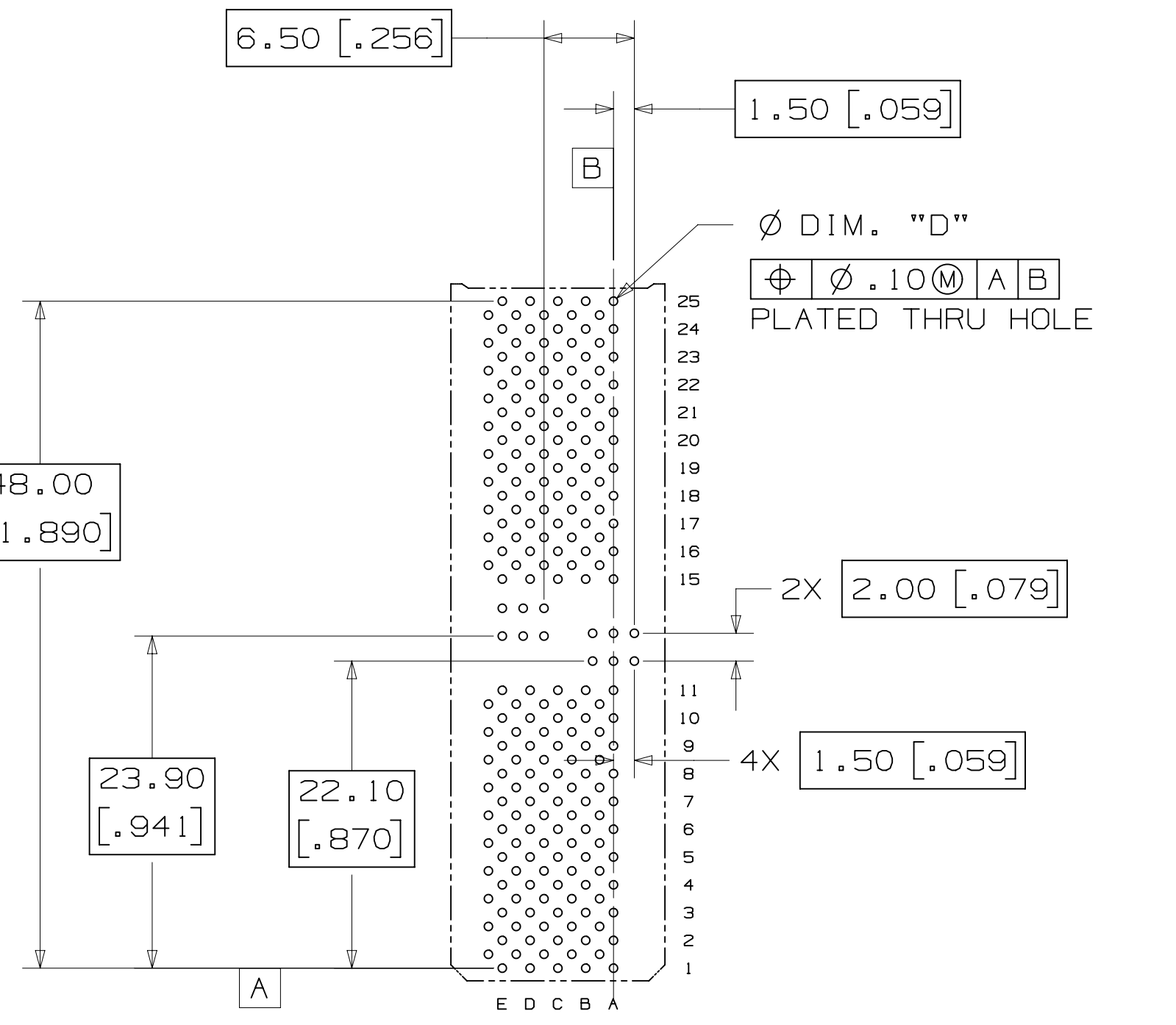
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ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)



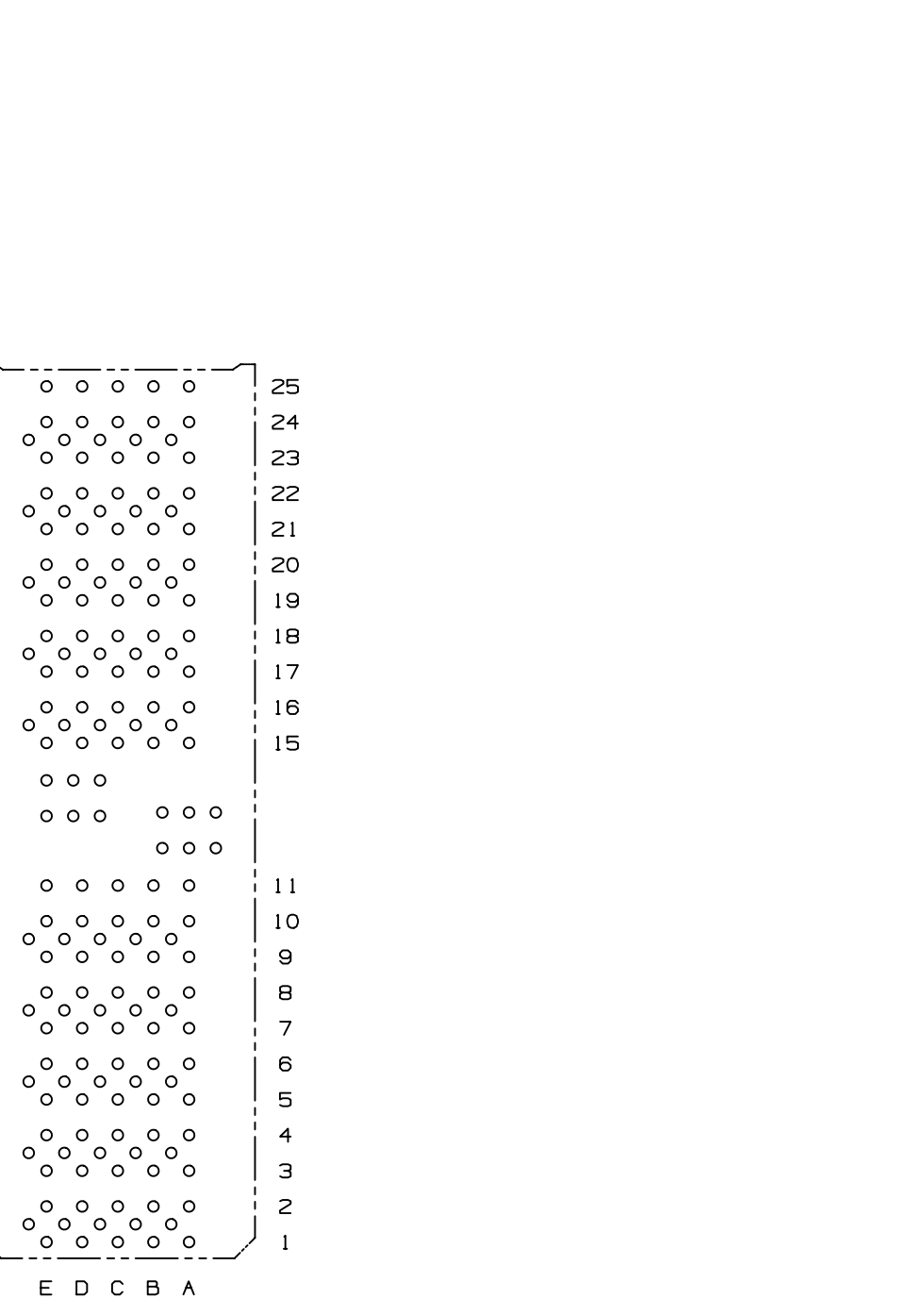
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COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS



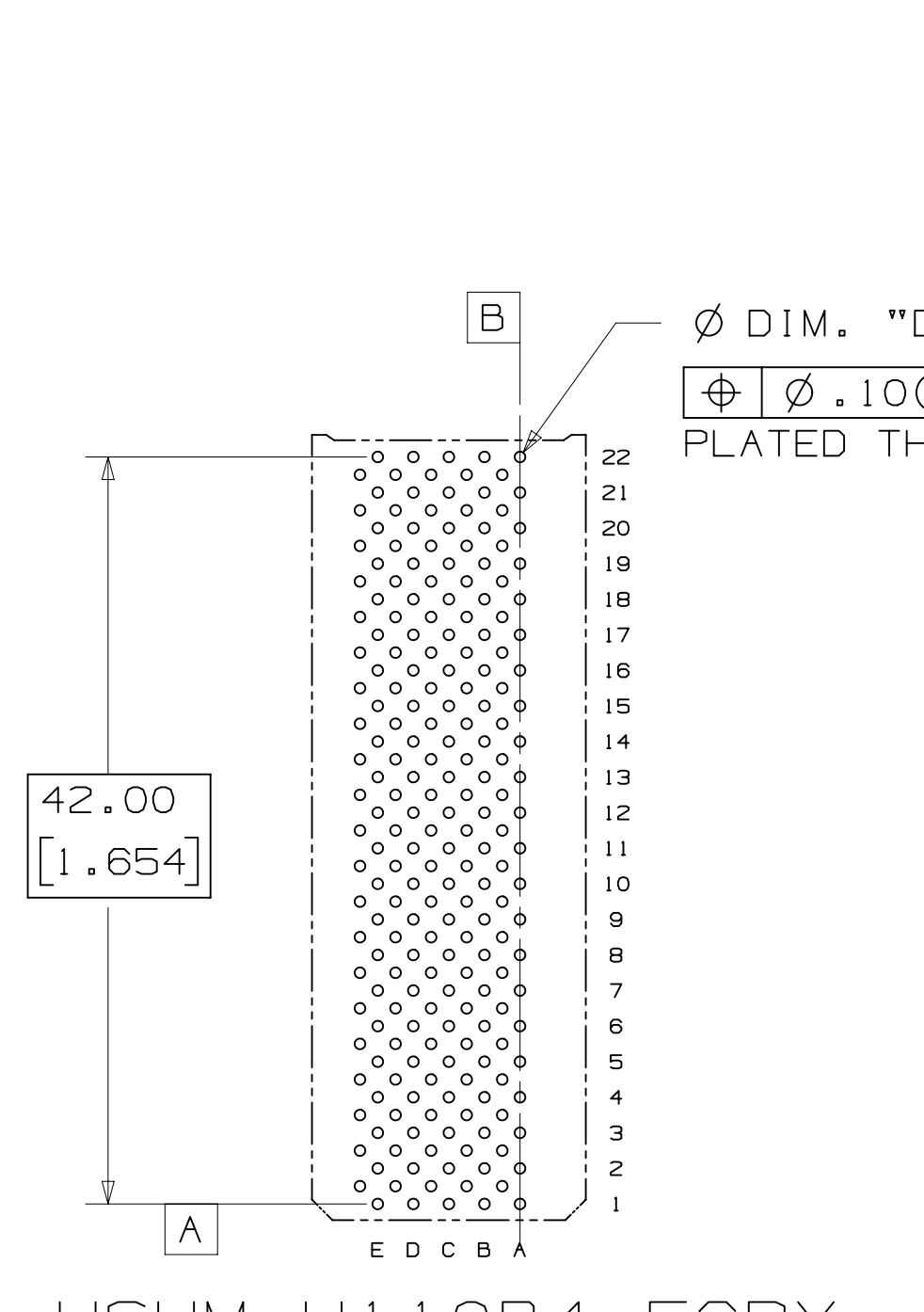
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ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
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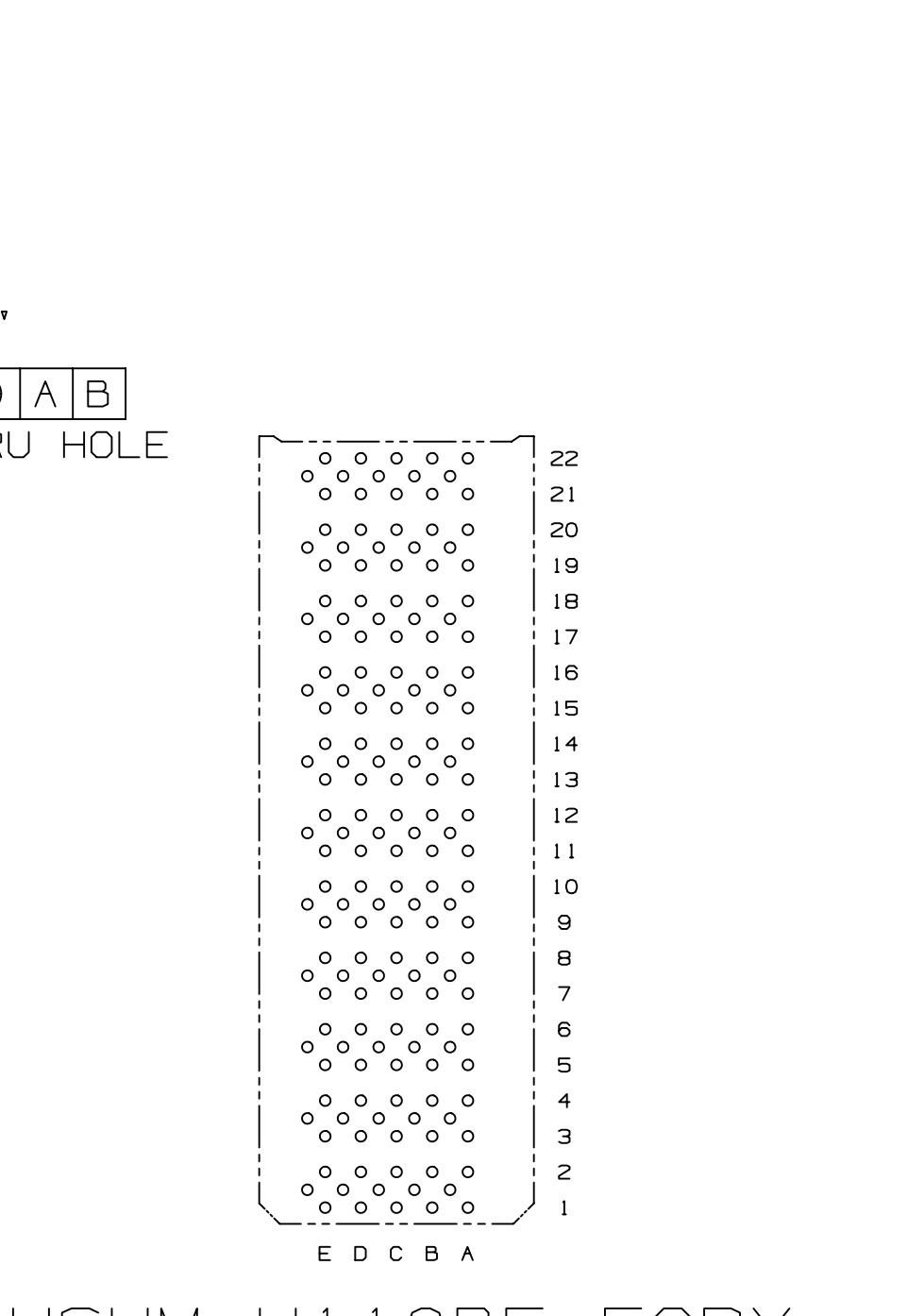
HSHM-H110APWR4-5CPX  
COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS



HSHM-H110APWR5-5CPX  
ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)



HSHM-H110B4-5CPX  
COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS



HSHM-H110B5-5CPX  
ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)

RECOMMENDED PCB MOUNTING HOLE PATTERN  
(VIEWED FROM COMPONENT SIDE)

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DO NOT SCALE DRAWING	SCALE 5/2	TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION		INCHES .00 ± .000 ± .005 ± .0002		MILLIMETERS 0 ± .0 ± .13 ± .000 ±		
MAX SURFACE ROUGHNESS		SURFACES		CAGE NUMBER D 78-5100-2633-5		
MARKED ONLY		ANGLES		MODEL HSHM		

B	67459	MAY 16, 2016	JNC	WL
A	50065	SEP 17, 2013	JNC	TS
ADD HSHM-H110AGX, REVISE DIVISION NAME		PRODUCTION RELEASE		
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD

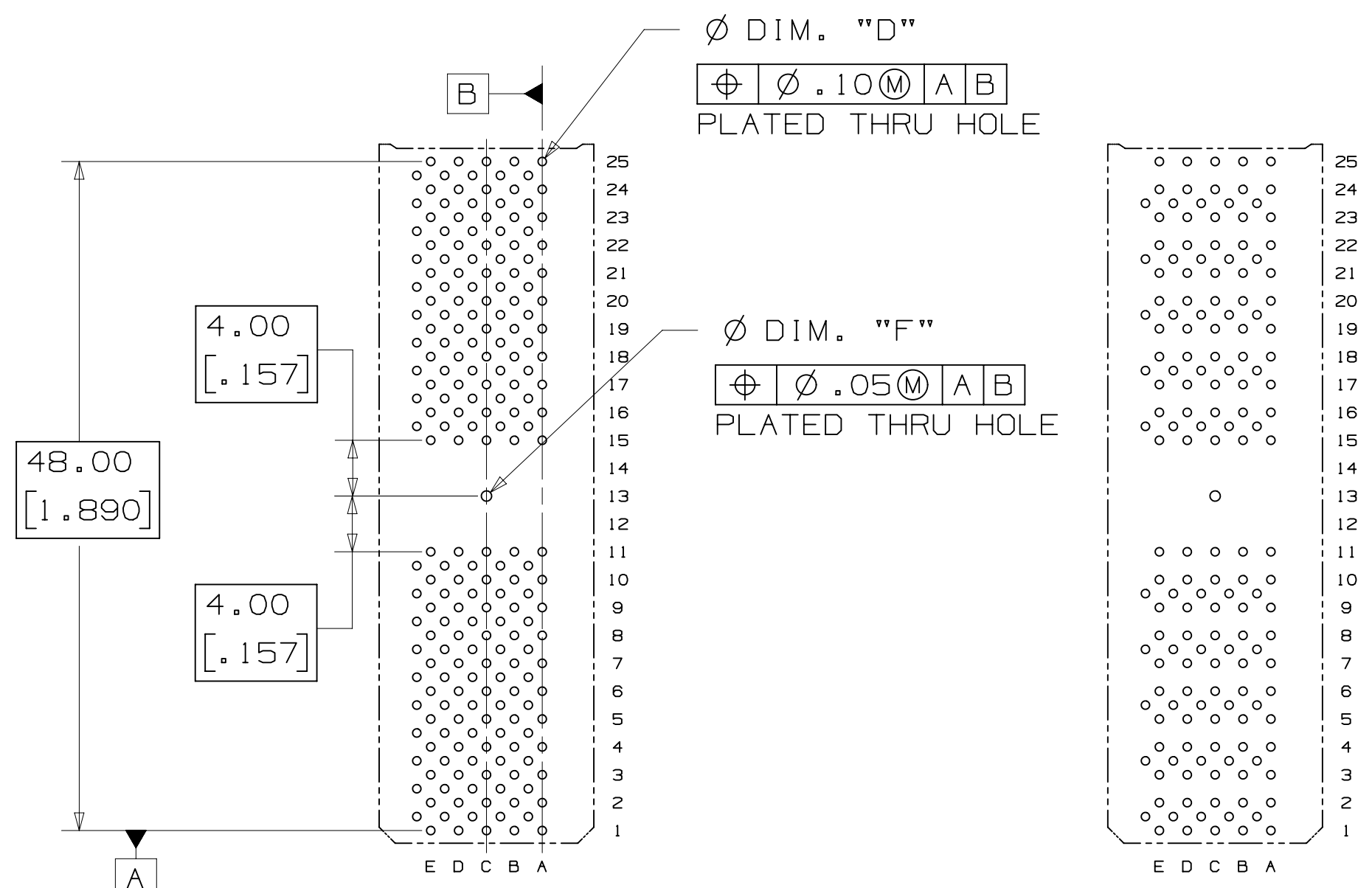
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TITLE  
HSHM PRESS-FIT HEADER, 2MM, 5-ROW, HSHM SERIES

DET [ ] YES [X] NO [ ] SHT 5 OF 6

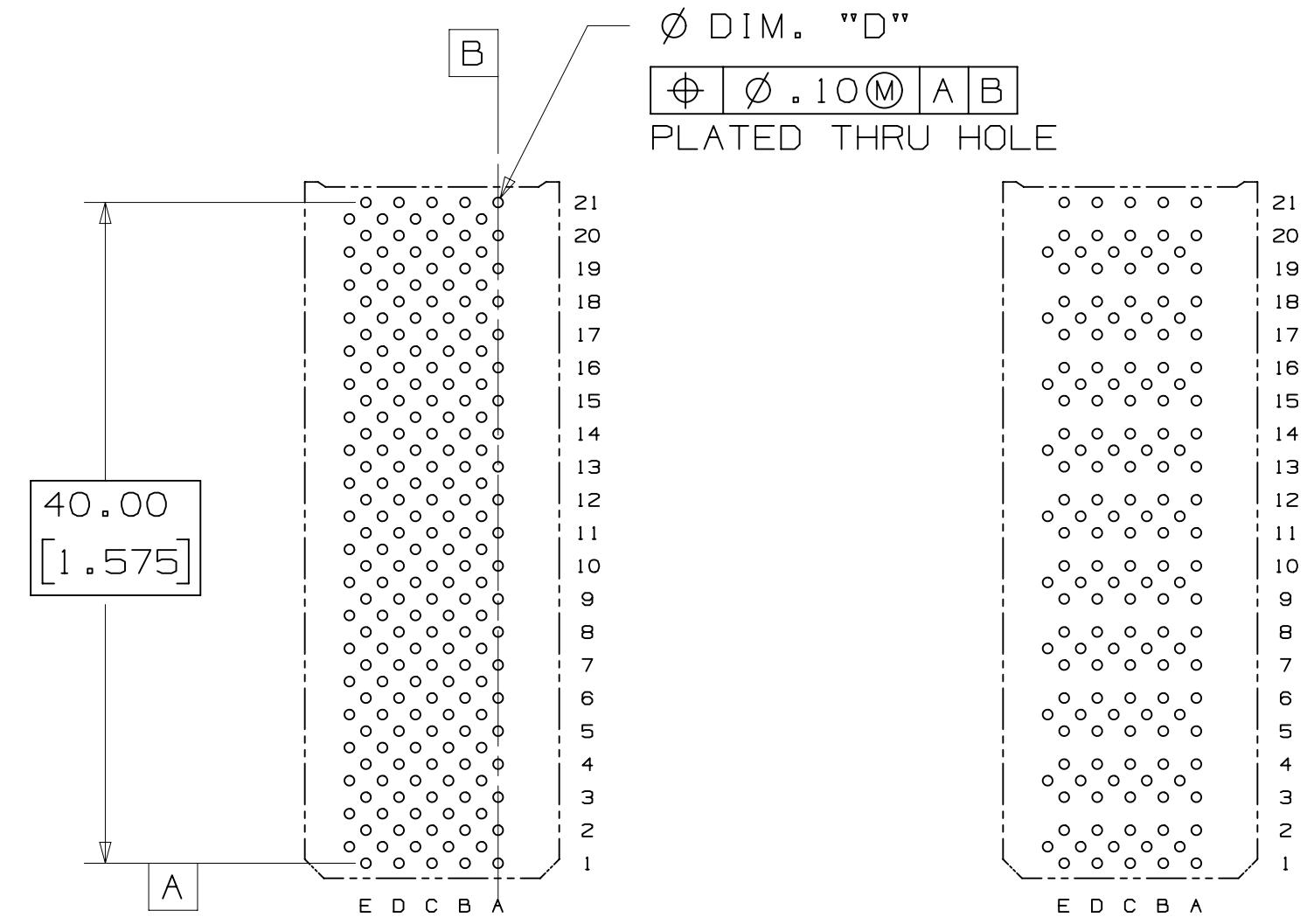
DRAWING NUMBER 78-5100-2633-5  
REVISED  
DATE 6/6/2016 8:05 AM UTC-05:00

3M™ HSHM PRESS-FIT HEADER, 5-ROW, HSHM SERIES  
FOR HIGH SPEED HARD METRIC APPLICATIONS



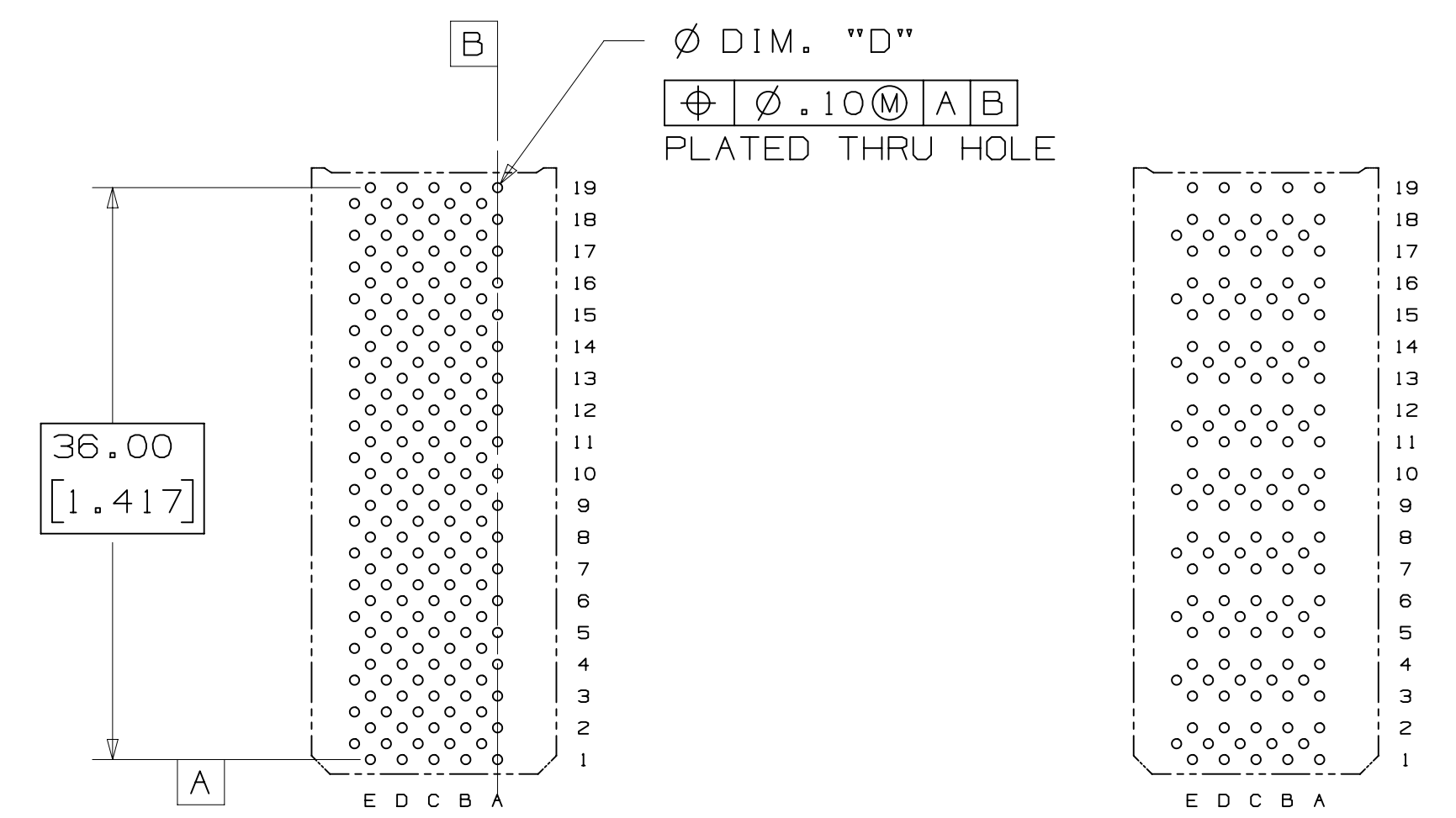
HSHM-H110AG4-5CPX  
COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS

HSHM-H110AG4-5CPX  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)



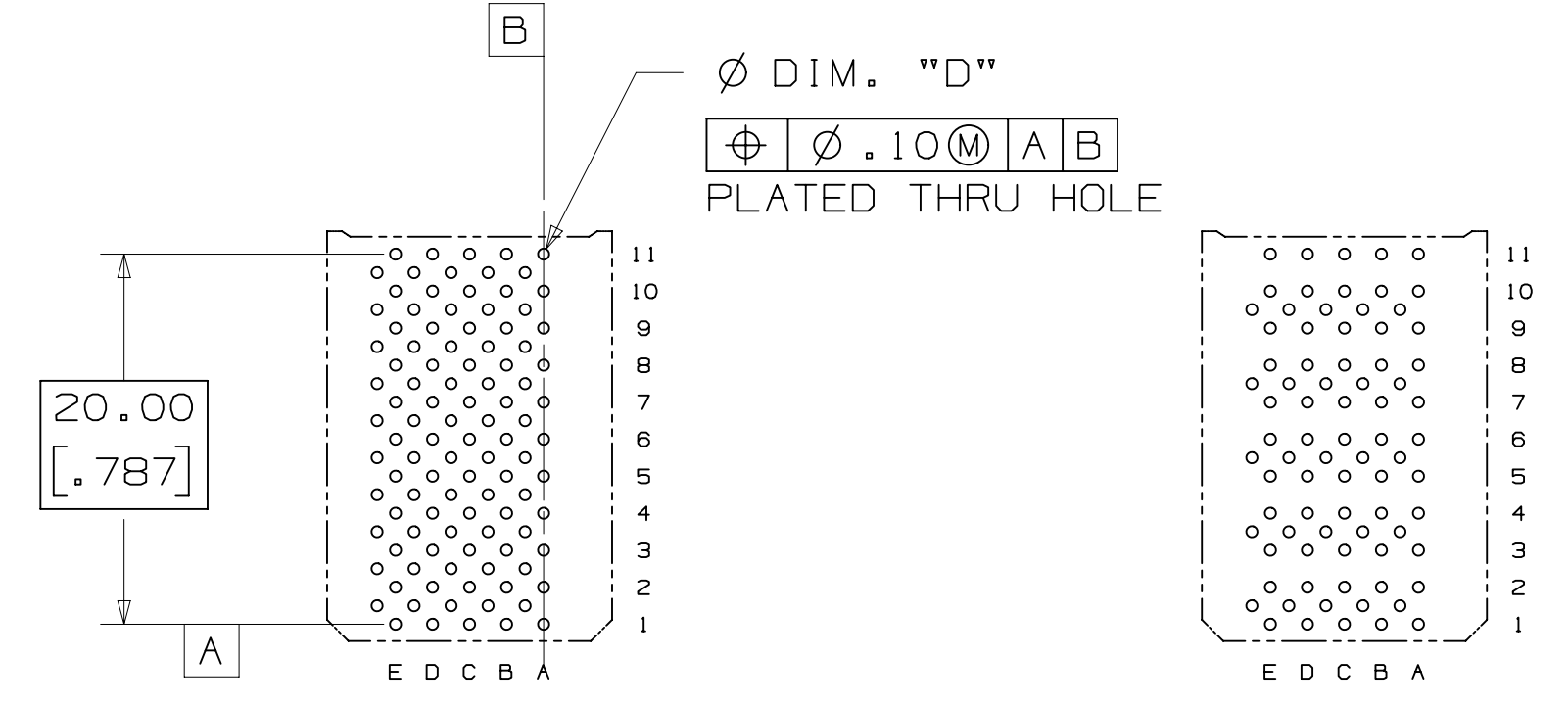
HSHM-H105B4-5CPX  
COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS

HSHM-H105B5-5CPX  
ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)



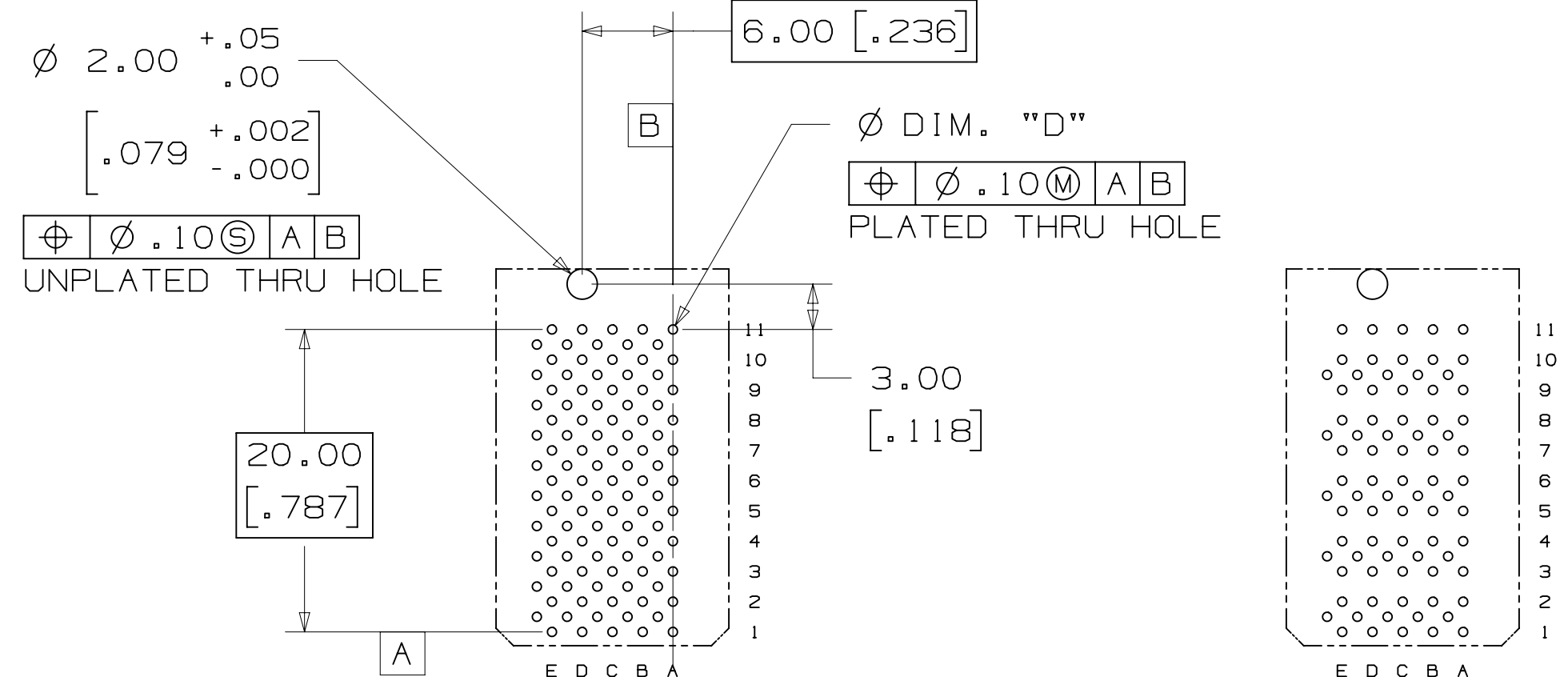
HSHM-H095B4-5CPX  
COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS

HSHM-H095B5-5CPX  
ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)



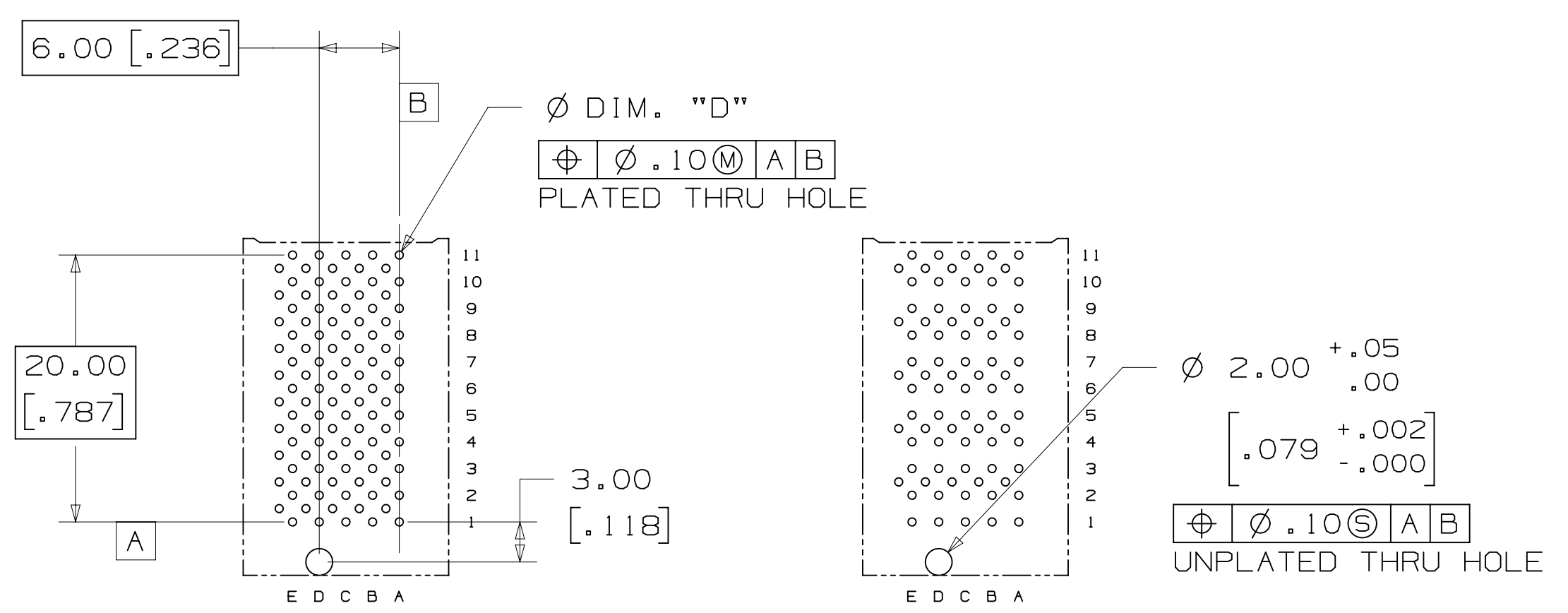
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COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS

HSHM-H055B5-5CPX  
ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)



HSHM-H055CL4-5CPX  
COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS

HSHM-H055CL5-5CPX  
ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)



HSHM-H055CR4-5CPX  
COAXIAL, COLUMN DIFFERENTIAL  
AND STRIPLINE APPLICATIONS

HSHM-H055CR5-5CPX  
ROW DIFFERENTIAL APPLICATIONS  
(SAME GEOMETRY AS LEFT VIEW  
WITHOUT THE GROUND VIAS)

RECOMMENDED PCB MOUNTING HOLE PATTERN  
(VIEWED FROM COMPONENT SIDE)

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				SEP 17, 2013		
DIVISION	DIVISION CODE	DATE	DATE	DATE	DATE	DATE
Interconnect Solutions	ISD	SEP 17, 2013	SEP 17, 2013	SEP 17, 2013	SEP 17, 2013	SEP 17, 2013
DO NOT SCALE DRAWING	SCALE 5/2	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INCHES	0 ±	© 3M COPYR [GHT] 2016 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS	0 ±	TITLE HSHM PRESS-FIT HEADER, 2MM, 5-ROW, HSHM SERIES			
MAX SURFACE ROUGHNESS	0 ±	0 ±	CAGE NUMBER D 78-5100-2633-5			
UNPLATED SURFACES	0 ±	0 ±	MODEL HSHM			
MARKED ONLY	0 ±	0 ±	DET [ ] YES [X] NO [ ] SHT 6 OF 6			

REVISION  
 DRAWING NUMBER  
 78-5100-2633-5  
 DATE  
 6/6/2016 8:05 AM UTC-05:00