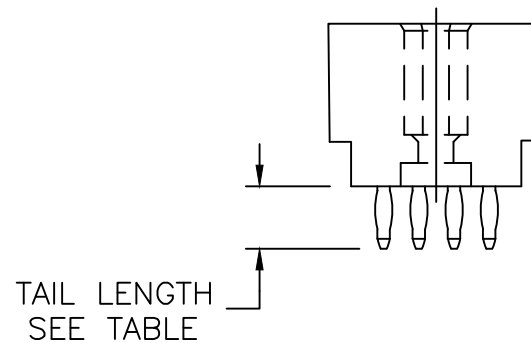
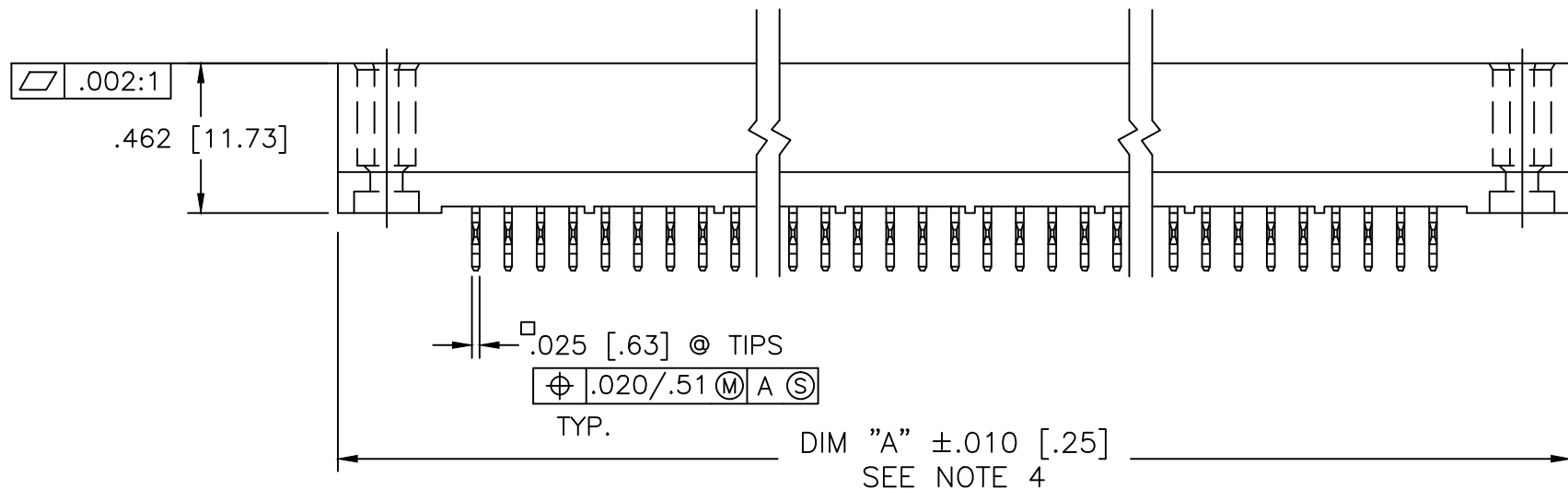
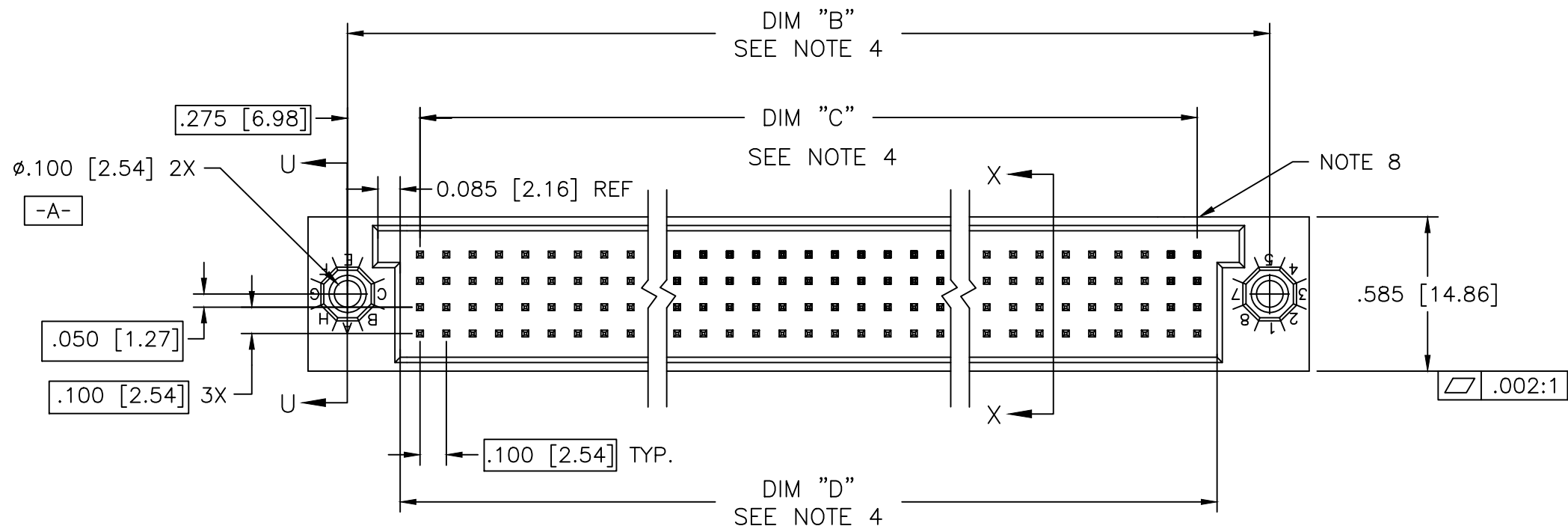




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PRODUCT NUMBER
SEE TABLE AND NOTES 1 & 2 ONSHEET 3



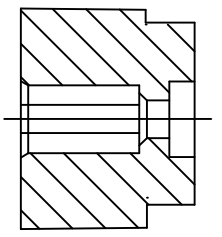
mat'l. code SEE NOTE 3				surface ISO 1302 ✓				tolerance ISO 406 ISO 1101				projection 				product family HPC															
ltr ecn no dr date				tolerances unless otherwise specified												 scale 1:1				title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.											
S I11-0094 SAL 2011-05-23				angles linear		.XX±.01/.3						dwg no sheet 1 of 14 size 50009 A3																			
T ELX-I-13738 MJA 2012-12-21						.XXX±.005/.13																									
U ELX-I-16877 MJA 2014-01-29				0°±2°		.XXX±.0020/.051																									
- - - -				dr		D.HORCHLER		2005-06-29																							
N V05-0999 DAI 10/29/05				enr		D.HORCHLER		2005-06-29																							
P M06-0283 MHT 7/27/06				chr		M JACOB		2014-01-29																							
R M06-0447 AGS 11/07/06				appd		BIJU K PAUL		2014-01-29																							
sheet index		revision sheet		U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14														



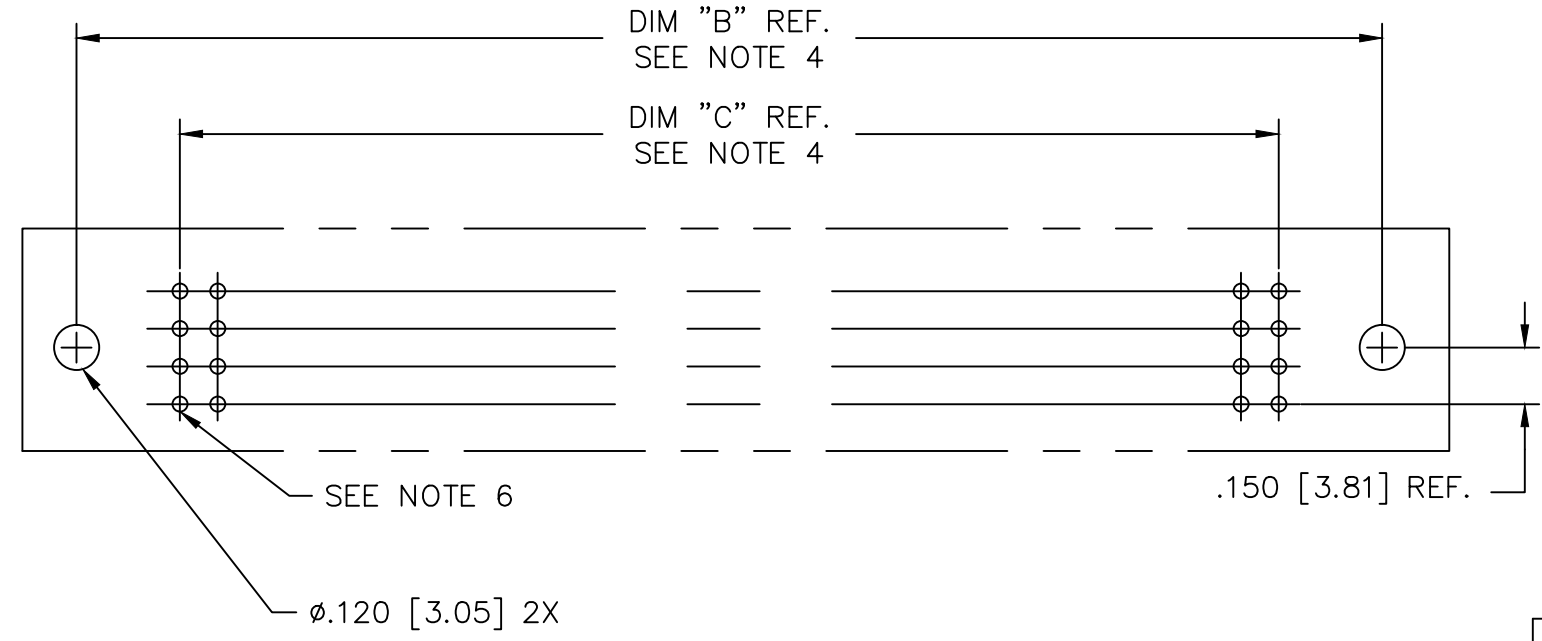
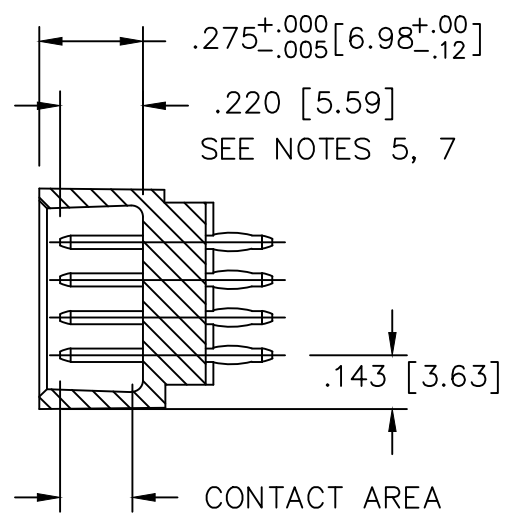
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PRODUCT NO.
SEE TABLE

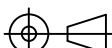
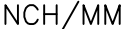
SECTION U-U



SECTION X-X



RECOMMENDED PCB LAYOUT
(ALL HOLES LOCATED ON .100/2.54 GRID
UNLESS OTHERWISE SPECIFIED)

mat'l. code SEE NOTE 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family HPC									
ltr	ecn no	dr	date	tolerances unless otherwise specified						title									
U				angles	linear	.XX±.01/.3		INCH/MM 	4 ROW VERTICAL HEADER W/PRESS—FIT PINS, 0 G.P.										
						.XXX±.005/.13													
				0°±2°		.XXXX±.0020/.051		scale 1:1											
				dr	D.HORCHLER	2005—06—21			dwg no		sheet 2 of 14						size		
				enr	D.HORCHLER	2005—06—21			50009								A3		
				chr	M JACOB	2014—01—29													
				appd	BIJU K PAUL	2014—01—29													
sheet index		revision sheet																	

NOTES:

①. PRODUCT NUMBERING CODE:
 50009 - X YYY Z LF
 LEAD FREE OPTION
 TAIL LENGTH, SEE TABLE
 NO. OF POSITIONS SEE NOTE 2
 PLATING IN CONTACT AREA SEE TABLE
 BASE NUMBER

PRODUCT NUMBERING CODE FOR
 SELECT LOAD PART NUMBERS:
 50009 - XXYYY LF
 LEAD FREE OPTION
 SEQUENCE NUMBER
 ALWAYS 'XX'
 BASE NUMBER

②. THIS PRODUCT IS CONFIGURED IN SIZES OF 6 thru 100 COLUMNS IN INCREMENTS OF ONE.
 i.e.: 6,7,8,9,.....99,100.

③. HOUSING MATERIAL: GLASS AND MINERAL FILLED
 HIGH TEMP. THERMOPLASTIC. FLAME RETARDANT PER
 UL94V-0. COLOR: BLACK.
 PIN MATERIAL: PHOS BRONZE

④. LENGTH CALCULATIONS:
 DIMENSION "A" = $.100/2.54 \times \text{NO. OF COLUMNS} + .75/19.1$
 DIMENSION "B" = $.100/2.54 \times \text{NO. OF COLUMNS} + .450/11.43$,
 DIMENSION "C" = $.100/2.54 \times \text{NO. OF COLUMNS} - .100/2.54$
 DIMENSION "D" = $.100/2.54 \times \text{NO. OF COLUMNS} + .050/1.27$

⑤. REFERENCE 50807 FOR F.M.L.B. AVAILABLE OPTIONS. SEE SHEETS 4-9. AND WORKSHEET.

⑥. $\phi .0453/1.151$ DRILLED HOLE PLATED WITH $.0003/.007$ MIN. SnPb OVER $.001/.03$ to $.003/.08$ Cu. PLATING TO ACHIEVE A $\phi .040 \pm .003/1.02 \pm .08$ HOLE.

⑦. TO ASSURE PROPER INSTALLATION: TOOLING, AS SPECIFIED IN INSTRUCTION MANUAL 155915-001 MUST BE USED. PIN MATING LENGTH WILL BE $\pm .002/.05$ AFTER INSTALLATION.

⑧. COMPANY NAME, PART NUMBER AND LOT CODE TO APPEAR ON THIS SURFACE PER BUS-12-108.

⑨. PRODUCT WITH "LF" SUFFIX MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

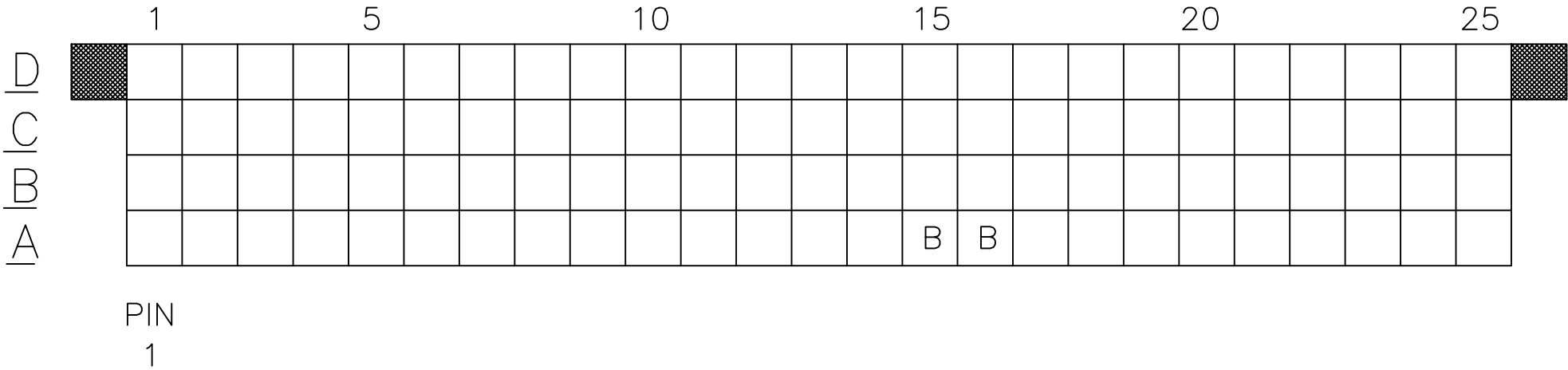
⑩. THIS PRODUCT IS NOT INTENDED TO BE EXPOSED TO A MANUFACTURING SOLDER PROCESS. HOWEVER, THE HOUSING MATERIAL WILL WITHSTAND HEAT UP TO THE 260°C .

- ②. THIS PRODUCT IS CONFIGURED IN SIZES OF 6 thru 100 COLUMNS IN INCREMENTS OF ONE.
i.e.: 6,7,8,9,.....99,100.
- ③. HOUSING MATERIAL: GLASS AND MINERAL FILLED
HIGH TEMP. THERMOPLASTIC. FLAME RETARDANT PER UL94V-0. COLOR: BLACK.
PIN MATERIAL: PHOS BRONZE
- ④. LENGTH CALCULATIONS:
DIMENSION "A" = $.100/2.54 \times \text{NO. OF COLUMNS} + .75/19.1$
DIMENSION "B" = $.100/2.54 \times \text{NO. OF COLUMNS} + .450/11.43$,
DIMENSION "C" = $.100/2.54 \times \text{NO. OF COLUMNS} - .100/2.54$
DIMENSION "D" = $.100/2.54 \times \text{NO. OF COLUMNS} + .050/1.27$
- ⑤. REFERENCE 50807 FOR F.M.L.B. AVAILABLE OPTIONS. SEE SHEETS 4-9. AND WORKSHEET.
- ⑥. $\phi .0453/1.151$ DRILLED HOLE PLATED WITH $.0003/.007$ MIN. SnPb OVER $.001/.03$ to $.003/.08$ Cu. PLATING TO ACHIEVE A $\phi .040 \pm .003/1.02 \pm .08$ HOLE.
- ⑦. TO ASSURE PROPER INSTALLATION: TOOLING, AS SPECIFIED IN INSTRUCTION MANUAL 155915-001 MUST BE USED. PIN MATING LENGTH WILL BE $\pm .002/.05$ AFTER INSTALLATION.
- ⑧. COMPANY NAME, PART NUMBER AND LOT CODE TO APPEAR ON THIS SURFACE PER BUS-12-108.
- ⑨. PRODUCT WITH "LF" SUFFIX MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- ⑩. THIS PRODUCT IS NOT INTENDED TO BE EXPOSED TO A MANUFACTURING SOLDER PROCESS. HOWEVER, THE HOUSING MATERIAL WILL WITHSTAND HEAT UP TO THE 260° C.
- ⑪. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
- ⑫. TERMINAL PORTION OF THE CONNECTOR TO BE LUBED BEFORE PACKING.

form: A3 1 2 3 4 PDS: Rev :U 5 STATUS:Released 6 Printed: Jan 29, 2014



PRODUCT NO.	ITEM KEY	SIGNAL DATA		
		SIZE 4 x 25	TOTAL NO. OF POSITIONS -100	NO. OF POSITIONS LOADED - 100
		CONTACT PLATING	QTY.	MATING LENGTH
50009-XX067	A	SEE SHEET 3	98	.200 / 5.08
	B	SEE SHEET 3	2	.240 / 6.10
50009-XX067LF	A	SEE SHEET 3	98	.200 / 5.08
	B	SEE SHEET 3	2	.240 / 6.10



1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

mat'l. code SEE NOTE 3				surface ISO 1302	tolerance ISO 406 ISO 1101	projection INCH/MM	product family HPC
ltr	ecn no	dr	date	tolerances unless otherwise specified		scale 1:1	title
U				angles	linear		4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
				0°±2°			
				dr	D.HORCHLER	2005-06-29	dwg no
				enr	D.HORCHLER	2005-06-29	sheet 6 of 14
				chr	M JACOB	2014-01-29	size
				appd	BIJU K PAUL	2014-01-29	A3
sheet index	revision sheet						type
							Product Customer Drawing

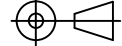
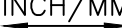
PRODUCT NO.	ITEM KEY	SIGNAL DATA				
		SIZE 4 x 50	TOTAL NO. OF POSITIONS – 200		NO. OF POSITIONS LOADED – 200	
		PIN PLATING	QTY.	MATING LENGTH	TAIL LENGTH	TOTAL PIN LENGTH
50009–XX076	A	SEE SHEET 3	130	.230 / 5.84	.177 / 4.50	.595 / 15.11
	B	SEE SHEET 3	68	.270 / 6.86	.177 / 4.50	.634 / 16.10
	C	SEE SHEET 3	2	.190 / 4.83	.177 / 4.50	.555 / 14.10
50009–XX076LF	A	SEE SHEET 3	130	.230 / 5.84	.177 / 4.50	.595 / 15.11
	B	SEE SHEET 3	68	.270 / 6.86	.177 / 4.50	.634 / 16.10
	C	SEE SHEET 3	2	.190 / 4.83	.177 / 4.50	.555 / 14.10

	1		5				10				15				20				25				30				35				40				45				50			
<u>D</u>		B	C		B			B			B			B			B			B			B			B			B			B			B			B	C			
<u>C</u>		B			B			B			B			B			B			B			B			B			B			B			B			B				
<u>B</u>		B			B			B			B			B			B			B			B			B			B			B			B			B				
<u>A</u>		B			B			B			B			B			B			B			B			B			B			B			B			B				
PIN																																										

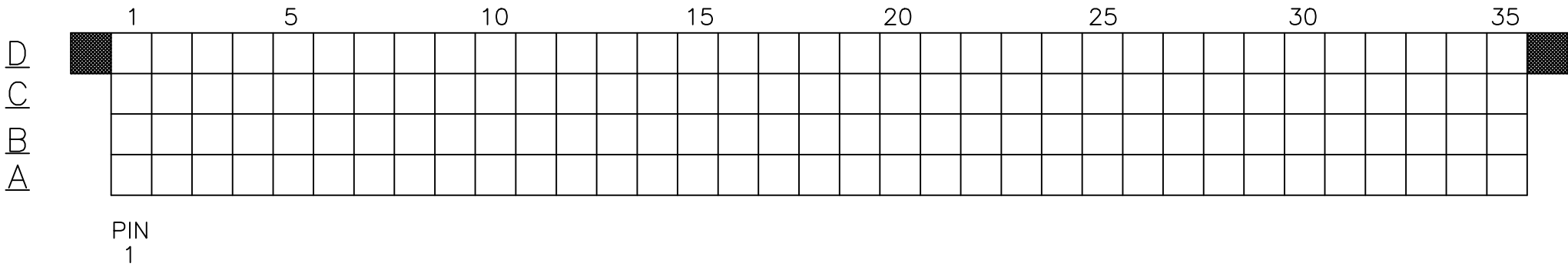
PIN

1

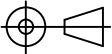
1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

mat'l. code SEE NOTE 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family HPC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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PRODUCT NO.	SIGNAL DATA				
	SIZE 4 x 35	TOTAL NO. OF POSITIONS -140	NO OF POSITIONS LOADED - 140		
	ITEM KEY	PINS: PLATING:	QUANTITY	MATING LENGTH	TAIL LENGTH
50009-XX124	A	SEE SHEET 3	140	.220 / 5.59	.603 / 15.32
50009-XX124LF	A	SEE SHEET 3	140	.220 / 5.59	.603 / 15.32



1. ALL POSITIONS ARE LOADED WITH "A".
2. COLUMN 1 ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

mat'l. code SEE NOTE 3				surface ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family HPC							
ltr	ecn no	dr	date	tolerances unless otherwise specified			INCH/MM scale 1:1 							
U				angles	linear	.XX±.01/.3								
				0°±2°		.XXX±.005/.13								
						.XXX±.0020/.051	dwg no							
				dr	D.HORCHLER	2005-06-29	sheet 8 of 14							
				engr	D.HORCHLER	2005-06-29	50009							
				chr	M JACOB	2014-01-29	A3							
				appd	BIJU K PAUL	2014-01-29								
sheet index	revision sheet													

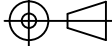
PRODUCT NUMBER	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 50	TOTAL NO. OF POSITIONS –200	NO. OF POSITIONS LOADED – 200	
				PRESS FIT STYLE	
		PIN PLATING	QTY.	MATING LENGTH	TAIL LENGTH
50009–XX187	A	SEE SHEET 3	85	.220 / 5.59	.561 / 14.25
	B	SEE SHEET 3	1	.180 / 4.57	.521 / 13.23
	C	SEE SHEET 3	8	.260 / 6.60	.601 / 15.27
	D	SEE SHEET 3	106	.220 / 5.59	.177 / 4.50
50009–XX187LF	A	SEE SHEET 3	85	.220 / 5.59	.561 / 14.25
	B	SEE SHEET 3	1	.180 / 4.57	.521 / 13.23
	C	SEE SHEET 3	8	.260 / 6.60	.601 / 15.27
	D	SEE SHEET 3	106	.220 / 5.59	.177 / 4.50

	1	5	10	15	20	25
D						
C	A	A			A	
B	A	A	C	A		A
A	A		C		A	C
	A	A	A		A	

PIN
1

26	30	35	40	45	50
A		A		A	
	A		A		C
	A		A		C
A		A		A	

1. ALL POSITIONS ARE LOADED WITH "D" EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

mat'l. code SEE NOTE 3				surface ISO 1302 ✓			tolerance ISO 406 ISO 1101			projection 			product family HPC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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PRODUCT NUMBER	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 80	TOTAL NO. OF	POSITIONS –320	NO. OF POSITIONS LOADED – 320
		PRESS FIT STYLE			
		PIN PLATING	QTY.	MATING LENGTH	TAIL LENGTH
50009–XX188	A	SEE SHEET 3	304	.210 / 5.33	.533 / 13.54
	B	SEE SHEET 3	16	.244 / 6.20	.533 / 13.54
50009–XX188LF	A	SEE SHEET 3	304	.210 / 5.33	.533 / 13.54
	B	SEE SHEET 3	16	.244 / 6.20	.533 / 13.54

	1	5	10	15	20	25	30	35	40
D	B	B							
C	B	B							
B	B	B							
A	B	B							

PIN
1

41	45	50	55	60	65	70	75	80
								B B
								B B
								B B
								B B

1. ALL POSITIONS ARE LOADED WITH "A" EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

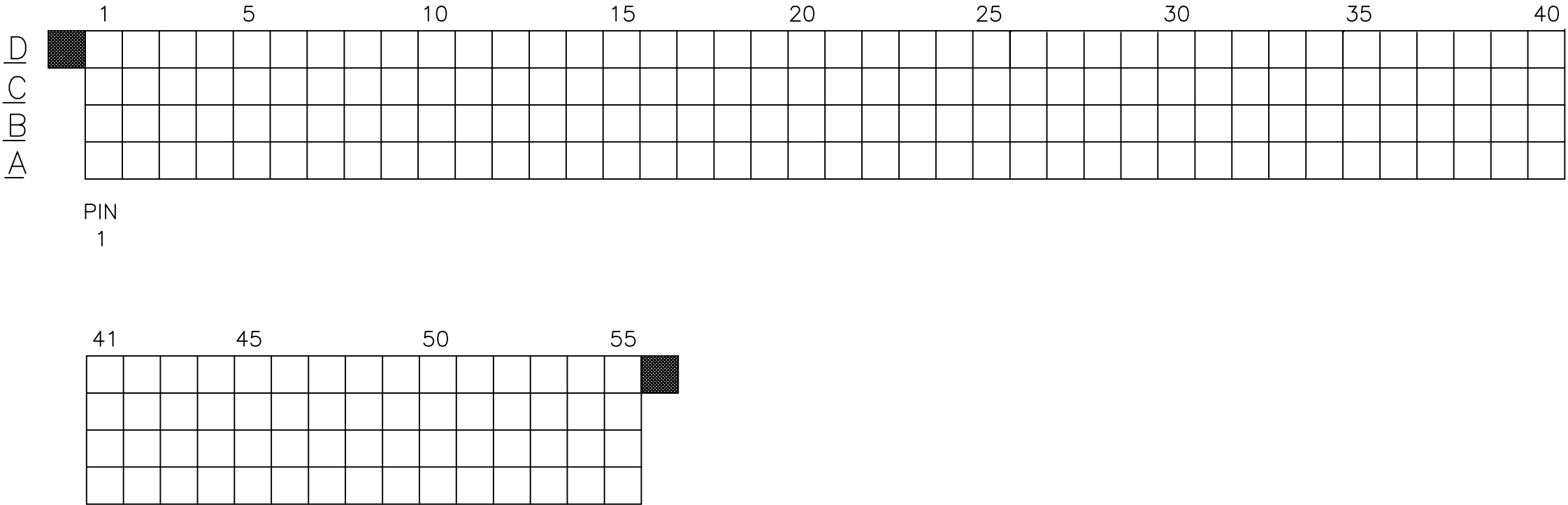
mat'l. code SEE NOTE 3				surface ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family HPC			
ltr	ecn no	dr	date	tolerances unless otherwise specified		INCH/MM ↔	title 4 ROW VERTICAL HEADER W/PRESS–FIT PINS, 0 G.P.			
U				angles	linear					
				0°±2°						
				dr	D.HORCHLER	2005–06–29		dwg no		sheet10 of 14
				enr	D.HORCHLER	2005–06–29		50009		A3
				chr	M JACOB	2014–01–29		type Product Customer Drawing		
				appd	BIJU K PAUL	2014–01–29				
sheet index	revision sheet									

		1		2	3									4		5		6
PRODUCT NUMBER	ITEM KEY	SIGNAL DATA																
		SIZE 4 x 80		TOTAL NO. OF POSITIONS -320				NO. OF POSITIONS LOADED - 320										
						PRESS FIT STYLE												
		PIN PLATING		QTY.		MATING LENGTH		TAIL LENGTH										
50009-XX189	A	SEE SHEET 3		304		.210 / 5.33		.660 / 16.76										
	B	SEE SHEET 3		16		.245 / 6.22		.660 / 16.76										
50009-XX189LF	A	SEE SHEET 3		304		.210 / 5.33		.660 / 16.76										
	B	SEE SHEET 3		16		.245 / 6.22		.660 / 16.76										

1. ALL POSITIONS ARE LOADED WITH "A" EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

[illegible]

PRODUCT NO.	SIGNAL DATA				
	SIZE 4 x 55	TOTAL NO. OF POSITIONS –220	NO OF POSITIONS LOADED – 220		
	ITEM KEY	PINS: PLATING:	QUANTITY	MATING LENGTH	TAIL LENGTH
50009–XX190	A	SEE SHEET 3	220	.220 / 5.59	.250 / 6.35
50009–XX190LF	A	SEE SHEET 3	220	.220 / 5.59	.250 / 6.35



- ALL POSITIONS ARE LOADED WITH "A".
- COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

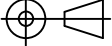
mat'l. code SEE NOTE 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family HPC										
ltr	ecn no	dr	date	tolerances unless otherwise specified						INCH/MM 	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.									
U				angles 0°±2°	linear	.XX±.01/.3		scale 1:1												
						.XXX±.005/.13														
						.XXXX±.0020/.051				dwg no				sheet12 of14				size		
				dr	D.HORCHLER	2005-06-29		50009				A3								
				engr	D.HORCHLER	2005-06-29														
				chr	M JACOB	2014-01-29														
				appd	BIJU K PAUL	2014-01-29														
sheet index		revision sheet																		

PRODUCT NO.	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 35	TOTAL NO. OF POSITIONS –140	NO. OF POSITIONS LOADED – 140	
		PLATING	QTY.	PRESS FIT STYLE	
				MATING LENGTH	TAIL LENGTH
50009–XX191	A	SEE SHEET 3	137	.220 / 5.59	.250 / 6.35
	B	SEE SHEET 3	3	.180 / 4.57	.250 / 6.35
50009–XX191LF	A	SEE SHEET 3	137	.220 / 5.59	.250 / 6.35
	B	SEE SHEET 3	3	.180 / 4.57	.250 / 6.35

	1	5	10	15	20	25	30	35	
D	B								B
C									
B									
A						B			

PIN
1

1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

mat'l. code SEE NOTE 3				surface ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family HPC			
ltr	ecn no	dr	date	tolerances unless otherwise specified		INCH/MM 	title 4 ROW VERTICAL HEADER W/PRESS–FIT PINS, 0 G.P.			
U				angles	linear					
				0°±2°						
				dr	D.HORCHLER	2005–06–29		dwg no		sheet13 of 14
				engr	D.HORCHLER	2005–06–29		50009		A3
				chr	M JACOB	2014–01–29		type Product Customer Drawing		
				appd	BIJU K PAUL	2014–01–29				
sheet index	revision sheet									

