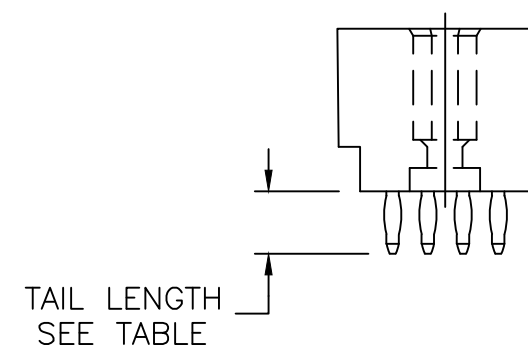
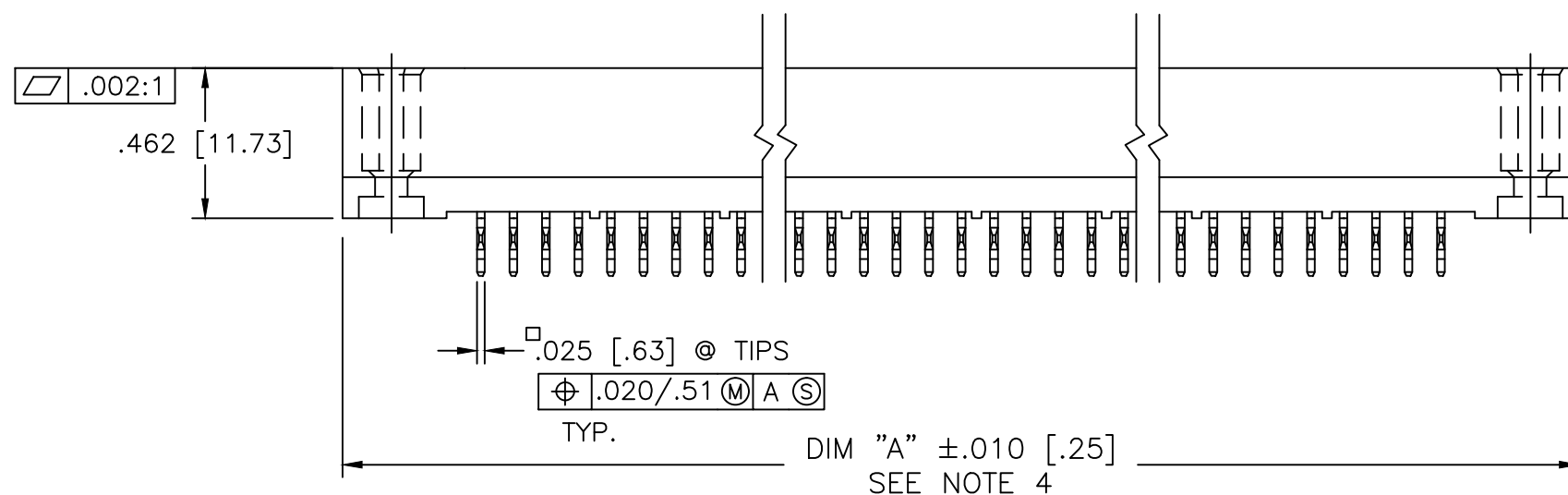
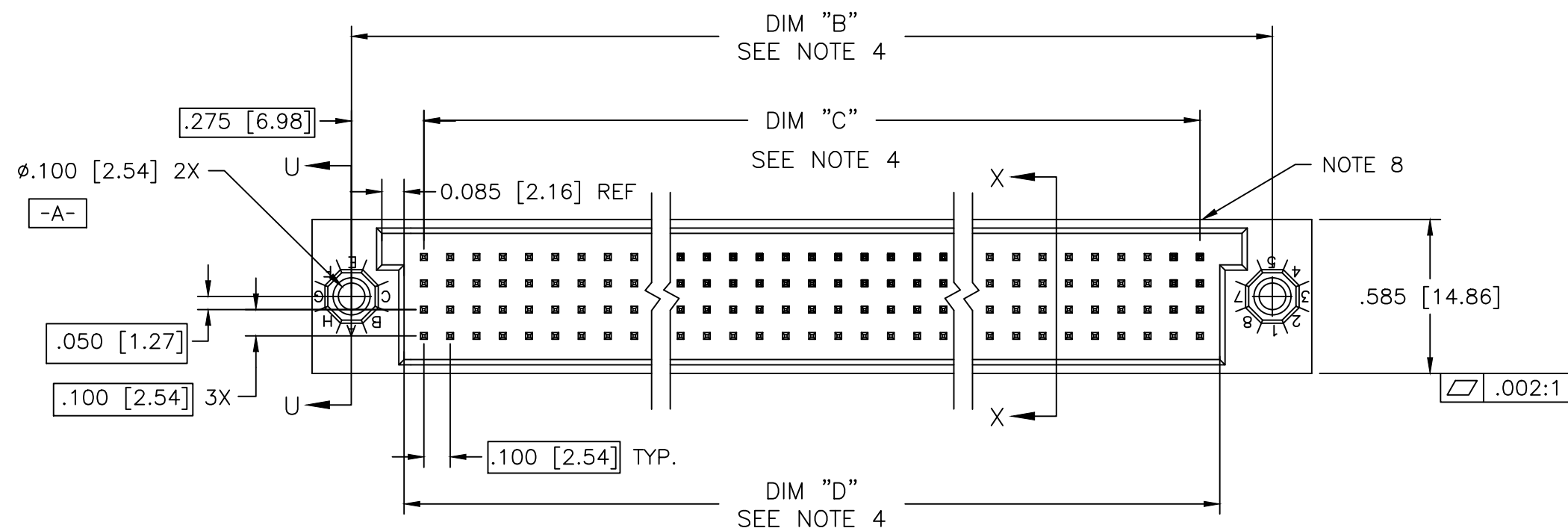
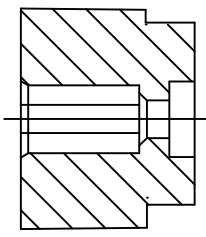


SEE TABLE AND NOTES 1 & 2 ONSHEET 3

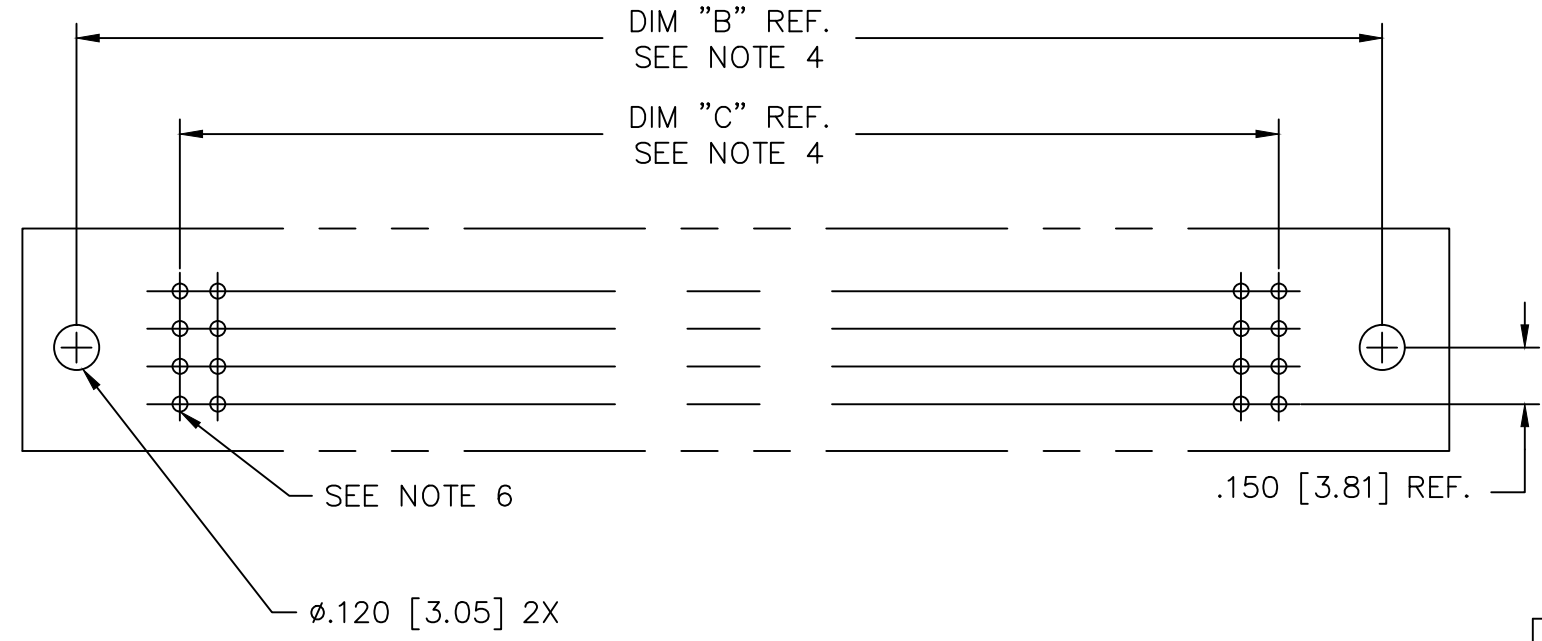
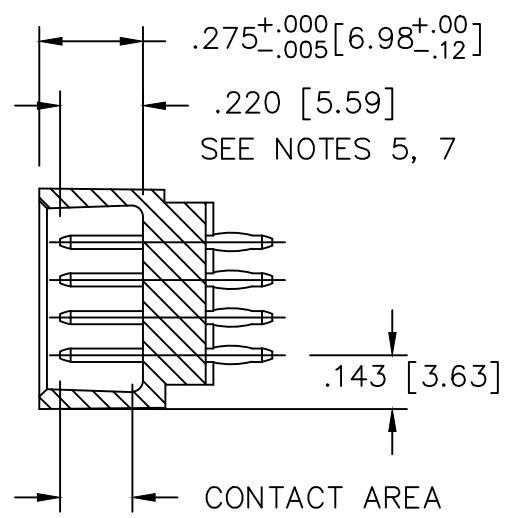
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PRODUCT NO.
SEE TABLE

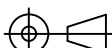
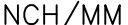
SECTION U-U



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.

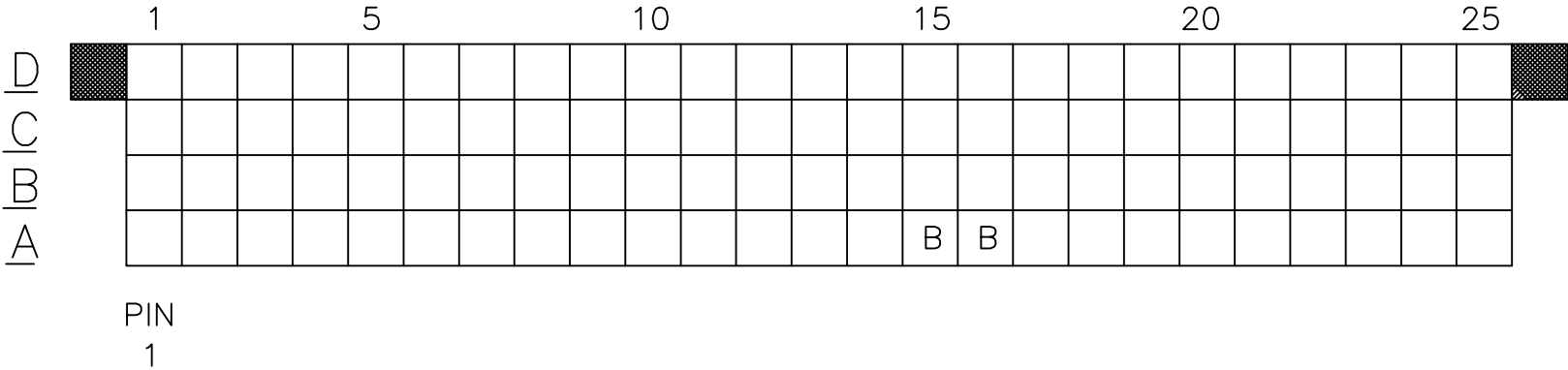
⑨. PRODUCT WITH "LF" SUFFIX MEETS EUROPEAN UNION DIRECTIVES AND
OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

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

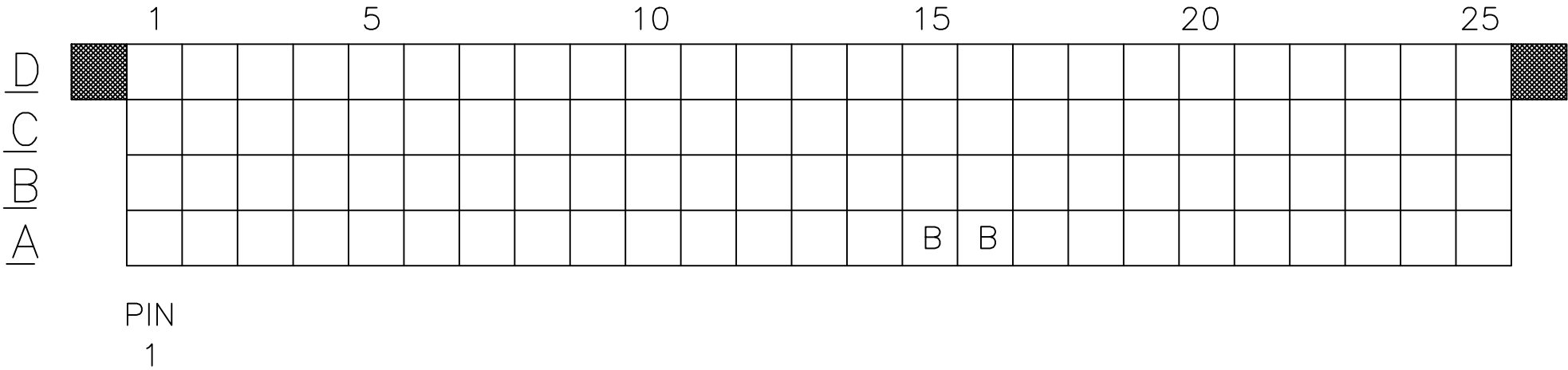
PRODUCT NO.	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 25	TOTAL NO. OF POSITIONS –100	NO. OF POSITIONS LOADED – 100	
				PRESS FIT STYLE	
		PLATING	QTY.	MATING LENGTH	TAIL LENGTH
50009–XX005	A	SEE SHEET 3	98	.220 / 5.59	.177 / 4.50
	B	SEE SHEET 3	2	.260 / 6.60	.177 / 4.50
50009–XX005LF	A	SEE SHEET 3	98	.220 / 5.59	.177 / 4.50
	B	SEE SHEET 3	2	.260 / 6.60	.177 / 4.50



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 scale 1:1	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		sheet 4 of 14
				enr	D.HORCHLER	2005–06–29		50009		A3
				chr	M JACOB	2014–01–29		type		
				appd	BIJU K PAUL	2014–01–29				
sheet index	revision sheet									

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



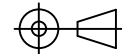
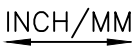
1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
U				angles	linear		
				0°±2°			
				dr	D.HORCHLER	2005-06-29	dwg no 50009
				enr	D.HORCHLER	2005-06-29	
				chr	M JACOB	2014-01-29	
				appd	BIJU K PAUL	2014-01-29	type Product Customer Drawing
sheet index	revision sheet						

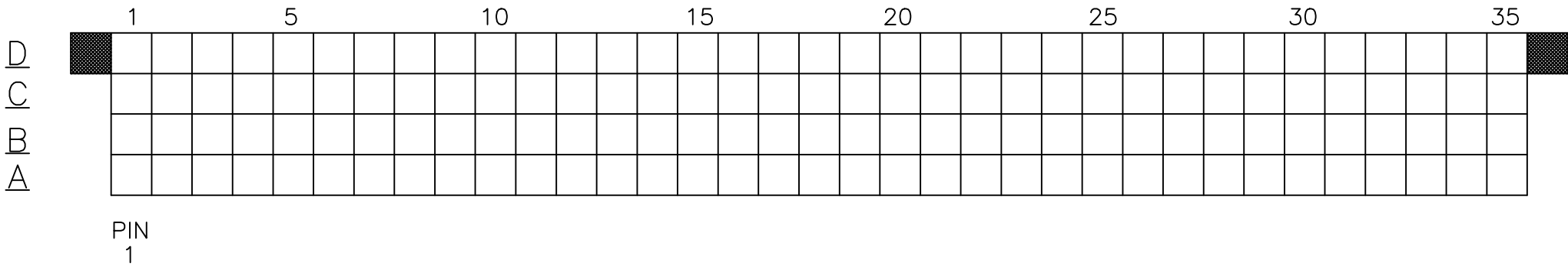
PRODUCT NO.	ITEM KEY	SIGNAL DATA				
		SIZE 4 x 50	TOTAL NO. OF POSITIONS – 200		NO. OF POSITIONS LOADED – 200	
		PIN PLATING	QTY.	MATING LENGTH	TAIL LENGTH	TOTAL PIN LENGTH
50009–XX076	A	SEE SHEET 3	130	.230 / 5.84	.177 / 4.50	.595 / 15.11
	B	SEE SHEET 3	68	.270 / 6.86	.177 / 4.50	.634 / 16.10
	C	SEE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

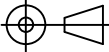
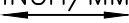
1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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								title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.										
U				angles	linear	.XX±.01/.3																
						.XXX±.005/.13																
				0°±2°		.XXXX±.0020/.051					scale 1:1											
				dr	D.HORCHLER		2005-06-29				dwg no		sheet 7 of 14		size							
				engr	D.HORCHLER		2005-06-29				50009		A3									
				chr	M JACOB		2014-01-29															
				appd	BIJU K PAUL		2014-01-29															
sheet index		revision sheet																				

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 	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		sheet 8 of 14
				enr	D.HORCHLER	2005-06-29		50009		A3
				chr	M JACOB	2014-01-29		type		
				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				
B	A	A				
A	A	A				

PIN
1

26	30	35	40	45	50
A					
	A				
	A				
A					

- ALL POSITIONS ARE LOADED WITH "D" EXCEPT AS SHOWN.
- 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 9 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 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.

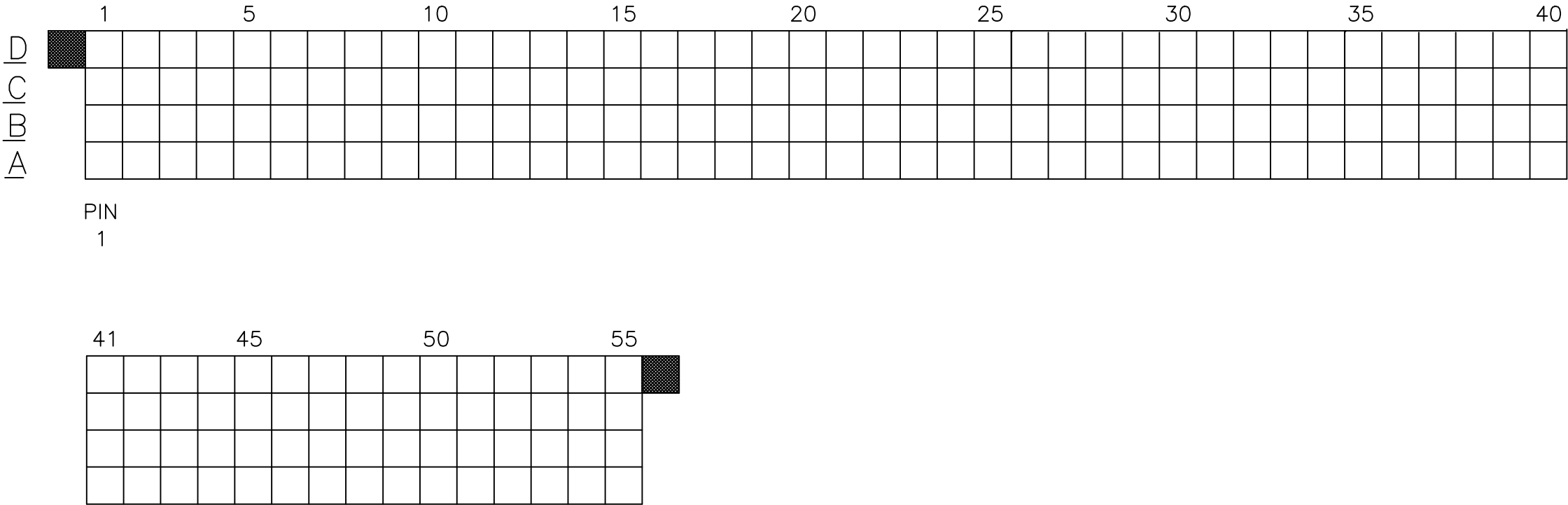
mat'l. code SEE NOTE 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family HPC											
ltr	ecn no	dr	date	tolerances unless otherwise specified						 INCH/MM scale 1:1		title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.									
U				angles	linear	.XX±.01/.3															
						.XXX±.005/.13															
						.XXXX±.0020/.051															
				dr	D.HORCHLER	2005-06-29				dwg no		sheet10 of14				size					
				enr	D.HORCHLER	2005-06-29				50009		A3									
				chr	M JACOB	2014-01-29															
				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.

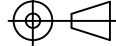
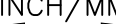
mat'l. code SEE NOTE 3				surface ISO 1302 ✓				tolerance ISO 406 ISO 1101				projection 				product family HPC															
ltr ecn no dr date				tolerances unless otherwise specified																title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.											
U				angles linear				.XX±.01/.3		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