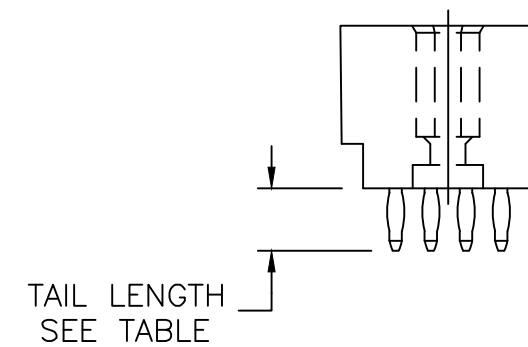
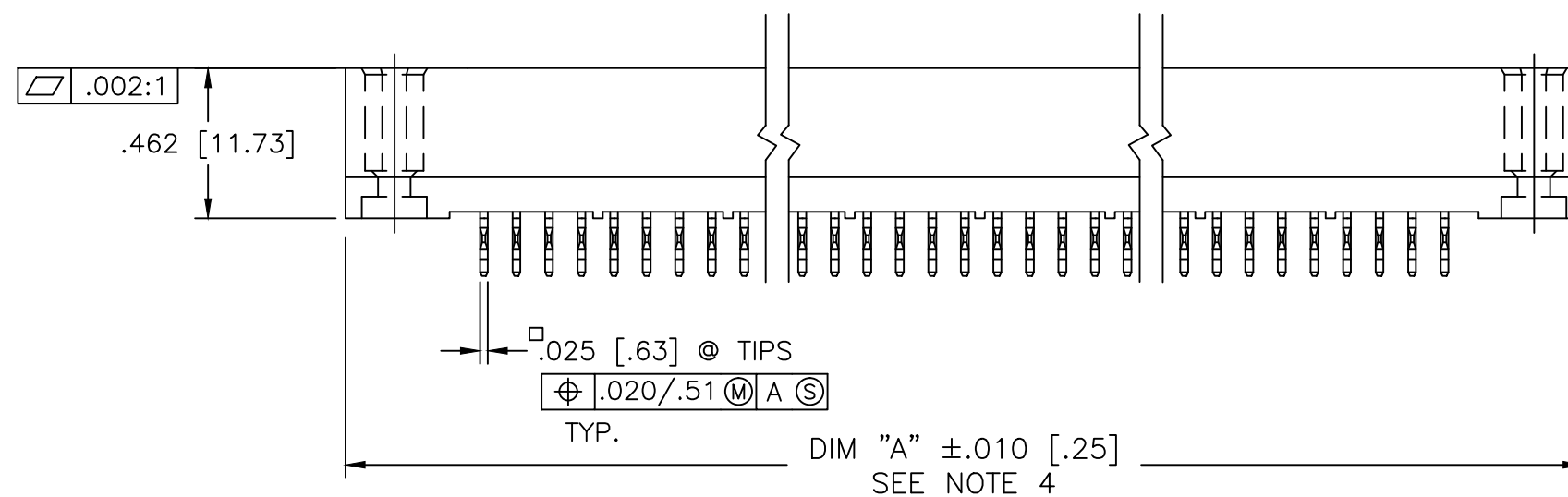
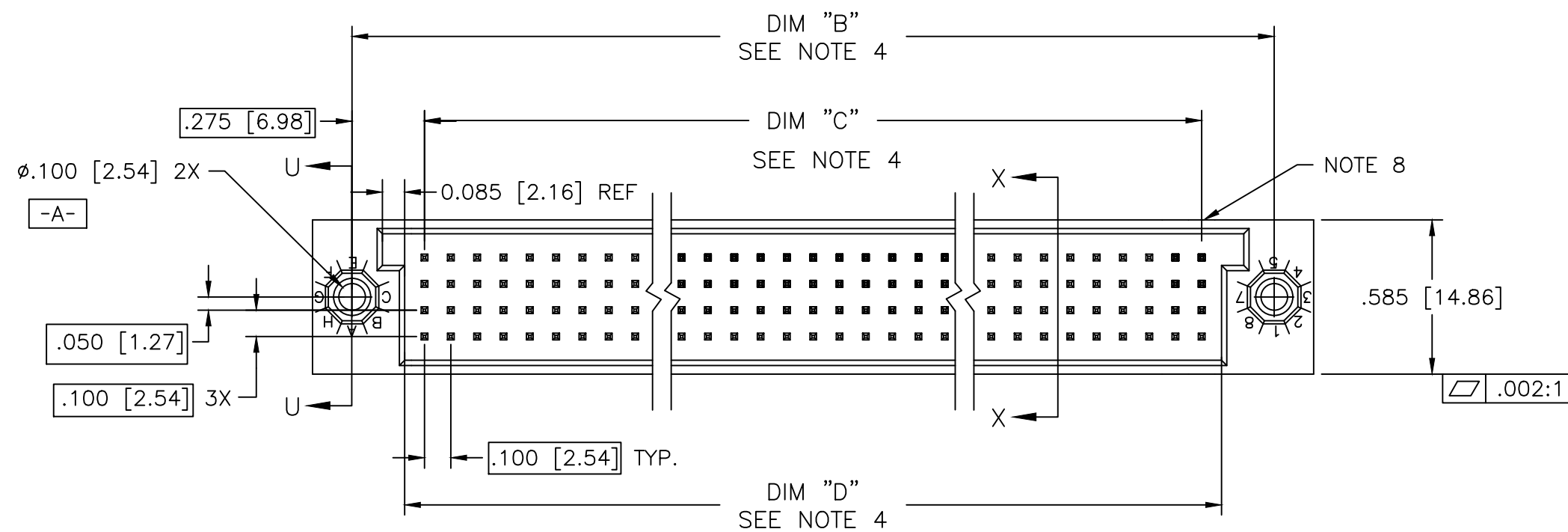
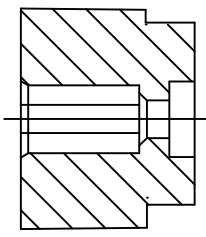




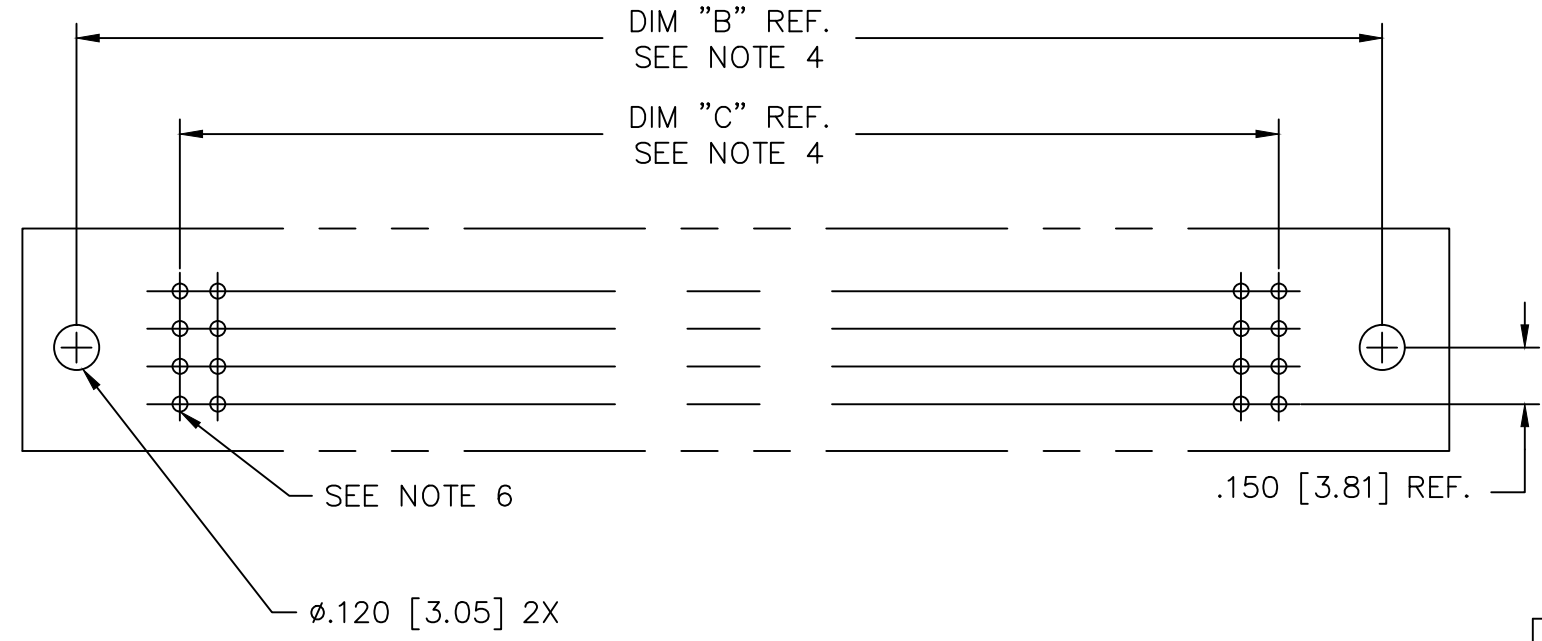
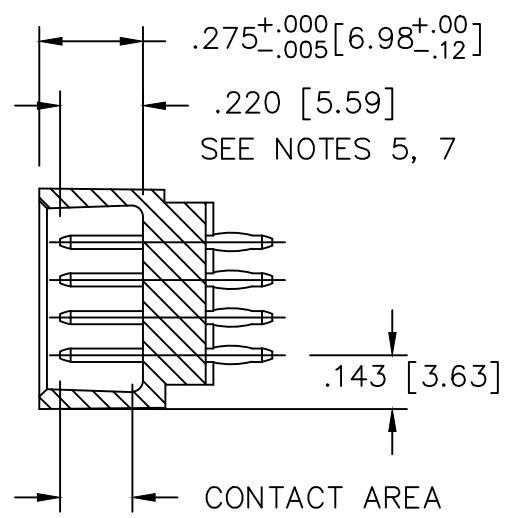
mat'l. code SEE NOTE 3				surface ISO 1302 ✓				tolerance ISO 406 ISO 1101				projection 				product family HPC											
ltr ecn no dr date				tolerances unless otherwise specified												title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.											
S I11-0094 SAL 2011-05-23				angles linear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

PRODUCT NO.
SEE TABLE

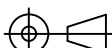
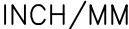
SECTION U-U



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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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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.

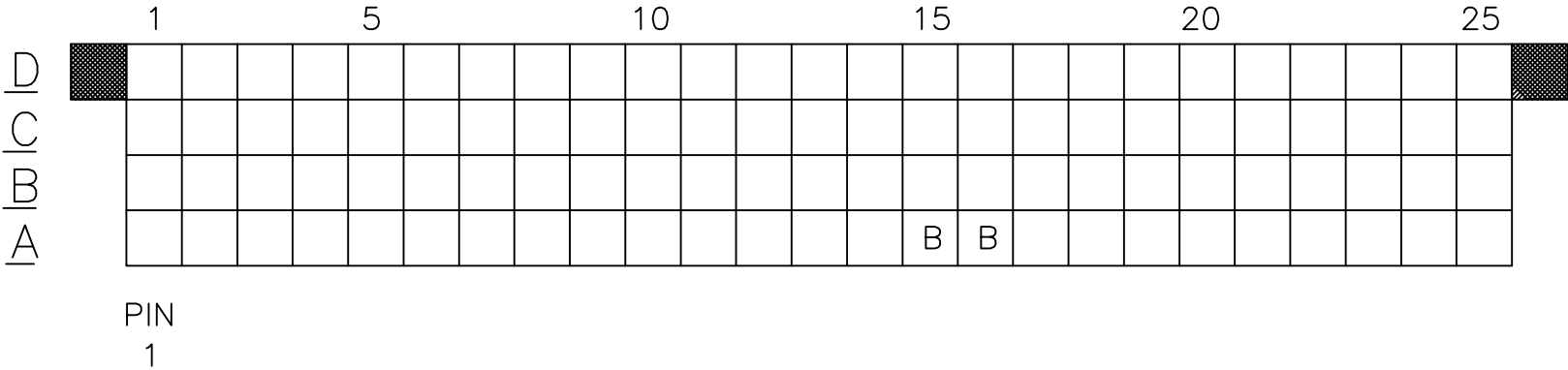
⑨. PRODUCT WITH "LF" SUFFIX MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

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 .

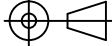
- ② THIS PRODUCT IS CONFIGURED IN SIZES OF 6 thru 100 COLUMNS IN INCREMENTS OF ONE.
i.e.: 6,7,8,9,.....99,100.
- ③ HOUSING MATERIAL: GLASS AND MINERAL FILLED
HIGH TEMP. THERMOPLASTIC. FLAME RETARDANT PER UL94V-0. COLOR: BLACK.
PIN MATERIAL: PHOS BRONZE
- ④ LENGTH CALCULATIONS:
DIMENSION "A" = $.100/2.54 \times \text{NO. OF COLUMNS} + .75/19.1$
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. 11 STATUS: Released Printed: Jan 29, 2014 6

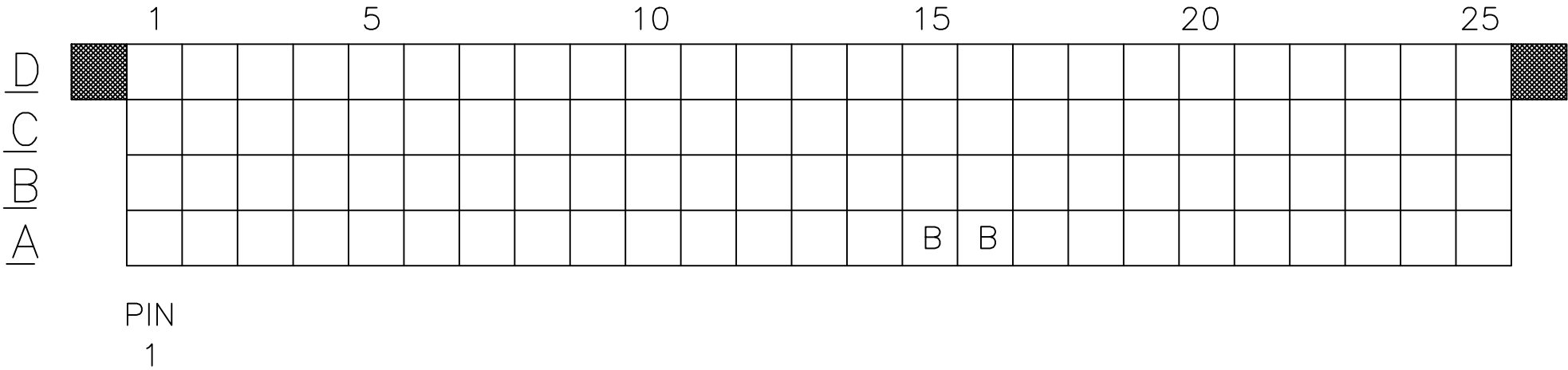
PRODUCT NO.	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 25	TOTAL NO. OF POSITIONS –100	NO. OF POSITIONS LOADED – 100	
				PRESS FIT STYLE	
		PLATING	QTY.	MATING LENGTH	TAIL LENGTH
50009–XX005	A	SEE SHEET 3	98	.220 / 5.59	.177 / 4.50
	B	SEE SHEET 3	2	.260 / 6.60	.177 / 4.50
50009–XX005LF	A	SEE SHEET 3	98	.220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



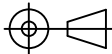
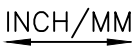
1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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 type Product Customer Drawing
				engr	D.HORCHLER	2005-06-29	
				chr	M JACOB	2014-01-29	
				appd	BIJU K PAUL	2014-01-29	sheet 6 of 14 size A3
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°		.XXX±.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 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			A	
A	A	A			A	

PIN
1

26	30	35	40	45	50
A			A		
	A		A		
	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
				0°±2°			W/PRESS–FIT PINS, 0 G.P.
				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

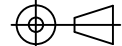
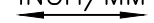
PRODUCT NUMBER	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 80	TOTAL NO. OF	POSITIONS –320	NO. OF POSITIONS LOADED – 320
		PRESS FIT STYLE			
		PIN PLATING	QTY.	MATING LENGTH	TAIL LENGTH
50009–XX188	A	SEE SHEET 3	304	.210 / 5.33	.533 / 13.54
	B	SEE SHEET 3	16	.244 / 6.20	.533 / 13.54
50009–XX188LF	A	SEE SHEET 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							

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41	45	50	55	60	65	70	75	80
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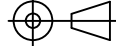
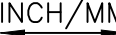
1. ALL POSITIONS ARE LOADED WITH "A" EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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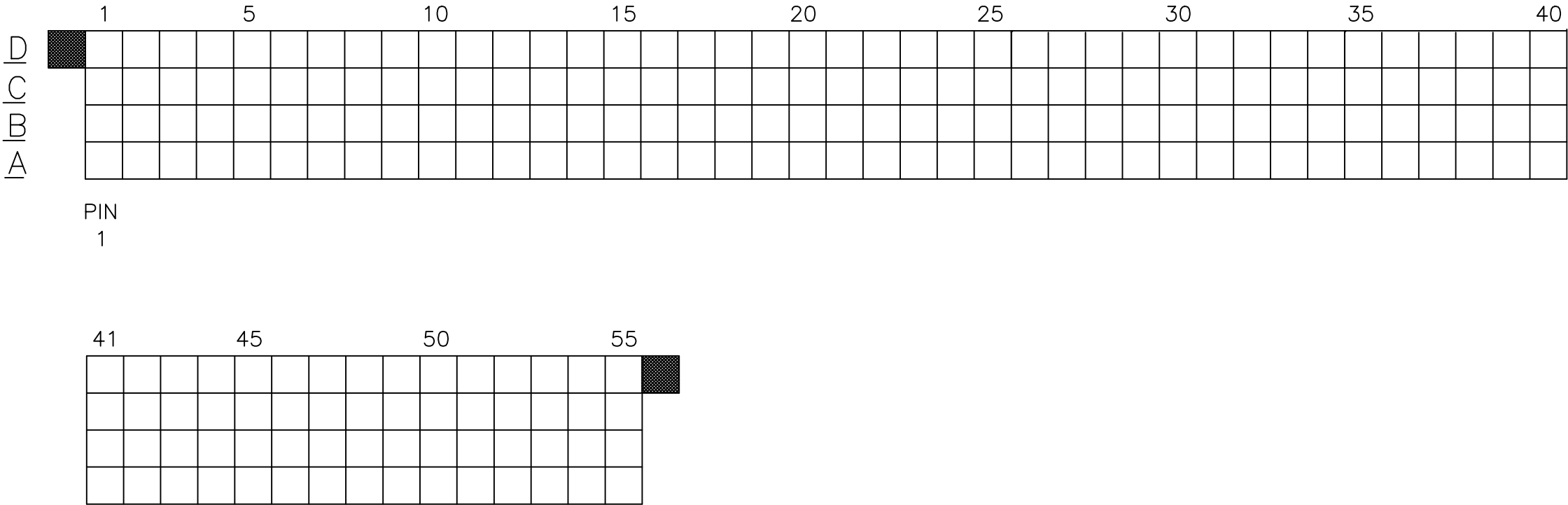
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PRODUCT NUMBER	ITEM KEY	SIGNAL DATA																			
		SIZE 4 x 80		TOTAL NO. OF POSITIONS –320				NO. OF POSITIONS LOADED – 320													
						PRESS FIT STYLE															
		PIN PLATING		QTY.		MATING LENGTH			TAIL LENGTH												
50009–XX189	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	5		10		15		20		25		30		35		40
<u>D</u>		B	B														
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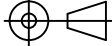
1. ALL POSITIONS ARE LOADED WITH "A" EXCEPT AS SHOWN.
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PRODUCT NO.	SIGNAL DATA				
	SIZE 4 x 55	TOTAL NO. OF POSITIONS –220	NO OF POSITIONS LOADED – 220		
	ITEM KEY	PINS: PLATING:	QUANTITY	MATING LENGTH	TAIL LENGTH
50009–XX190	A	SEE SHEET 3	220	.220 / 5.59	.250 / 6.35
50009–XX190LF	A	SEE SHEET 3	220	.220 / 5.59	.250 / 6.35



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

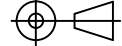
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PRODUCT NO.	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 35	TOTAL NO. OF POSITIONS –140	NO. OF POSITIONS LOADED – 140	
		PLATING	QTY.	PRESS FIT STYLE	
				MATING LENGTH	TAIL LENGTH
50009–XX191	A	SEE SHEET 3	137	.220 / 5.59	.250 / 6.35
	B	SEE SHEET 3	3	.180 / 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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[XX076](#) [50009-XX187](#) [50009-1140C](#) [50009-5100G](#) [50009-5128ALF](#) [50009-5128GLF](#) [50009-5180GLF](#) [50009-5216G](#)
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