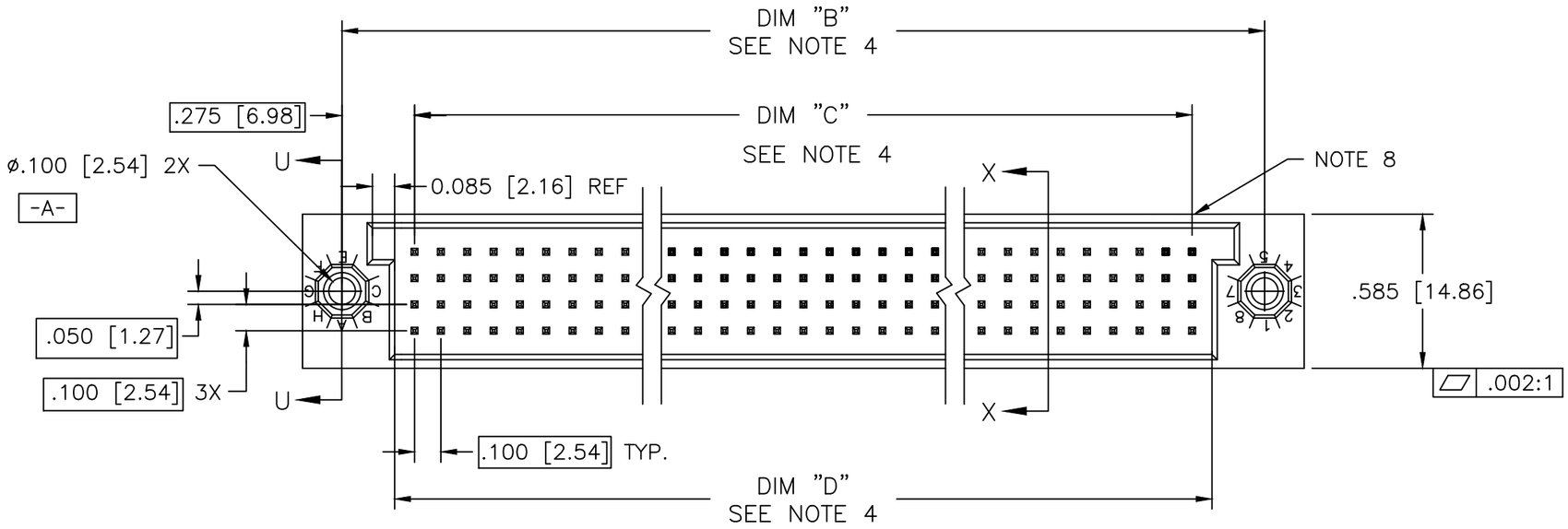
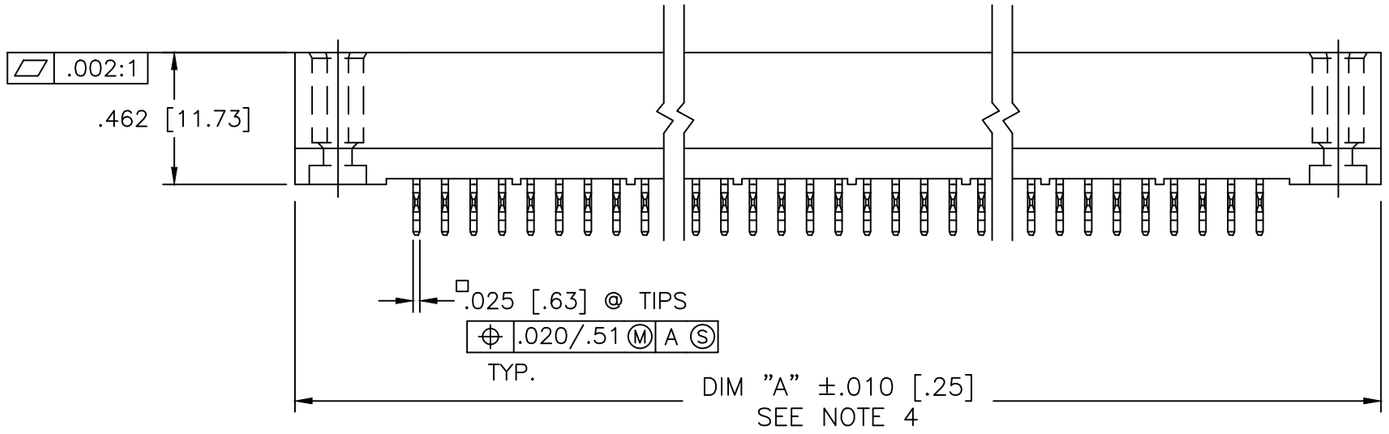
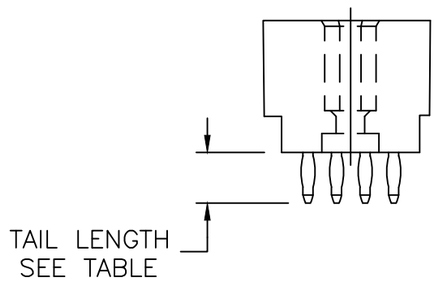
PRODUCT NUMBER
SEE TABLE AND NOTES 1 & 2 ONSHEET 3







mat'l. code				surface		tolerance	projection	product family
SEE NOTE 3				ISO 1302		ISO 406 ISO 1101		HPC
ltr	ecn no	dr	date	tolerances unless otherwise specified				title
S	I11-0094	SAL	2011-05-23	angles	linear	.XX±.01/.3	INCH/MM	4 ROW VERTICAL HEADER
T	ELX-I-13738	MJA	2012-12-21			.XXX±.005/.13		W/PRESS-FIT PINS, 0 G.P.
U	ELX-I-16877	MJA	2014-01-29	0°±2°		.XXXX±.0020/.051	scale 1:1	
–	–	–	–	dr	D.HORCHLER	2005-06-29		dwg no 50009 sheet 1 of14 size A3
N	V05-0999	DAI	10/29/05	engr	D.HORCHLER	2005-06-29		
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	revision	U	U	U	U	U	U	U	U	U	U	U	U	U	U							
index	sheet	1	2	3	4	5	6	7	8	9	10	11	12	13	14							

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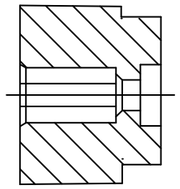
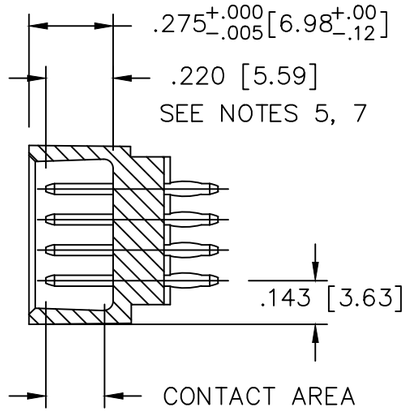
form: A3

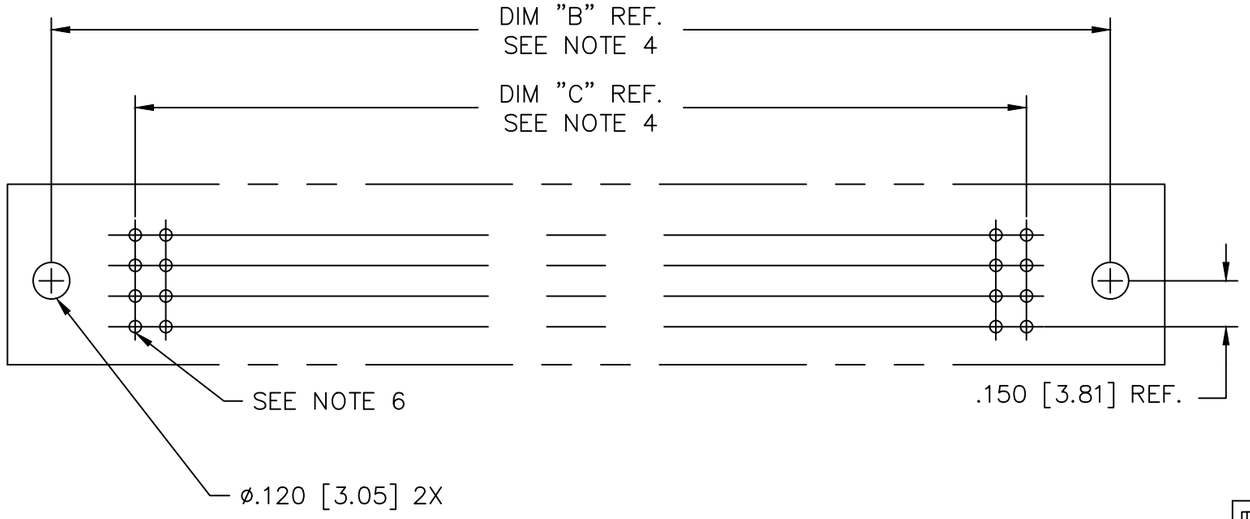
PRODUCT NO.
SEE TABLE



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 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		scale 1:1							
				dr	D.HORCHLER	2005-06-21				dwg no 50009				sheet 2 of 14	size A3
				engr	D.HORCHLER	2005-06-21									
				chr	M JACOB	2014-01-29									
				appd	BIJU K PAUL	2014-01-29				type Product Customer Drawing					
sheet index	revision sheet														

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PRODUCT NO. NOTE 11	NUMBER OF POSITIONS	TAIL LENGTH ±.015/.38	CONTACT PLATING	
50009-1YYYA	YYY	.177/4.50	30µ"/.76µ Au	
50009-1YYYC	YYY	.533/13.54	30µ"/.76µ Au	
50009-1YYYD	YYY	.733/18.62	30µ"/.76µ Au	
50009-1YYYG	YYY	.250/6.35	30µ"/.76µ Au	
50009-1YYYL	YYY	.188/4.78	30µ"/.76µ Au	
50009-1YYYP	YYY	.470/11.94	30µ"/.76µ Au	
50009-1YYYR	YYY	.250/6.35	30µ"/.76µ Au	
50009-3YYYA	YYY	.177/4.50	50µ"/1.27µ Au	
50009-3YYYC	YYY	.533/13.54	50µ"/1.27µ Au	
50009-3YYYD	YYY	.733/18.62	50µ"/1.27µ Au	
50009-3YYYG	YYY	.250/6.35	50µ"/1.27µ Au	
50009-3YYYL	YYY	.188/4.78	50µ"/1.27µ Au	
50009-3YYYP	YYY	.470/11.94	50µ"/1.27µ Au	
50009-3YYYR	YYY	.250/6.35	50µ"/1.27µ Au	
50009-5YYYA	YYY	.177/4.50	30µ"/.76µ GXT	
50009-5YYYC	YYY	.533/13.54	30µ"/.76µ GXT	
50009-5YYYD	YYY	.733/18.62	30µ"/.76µ GXT	
50009-5YYYG	YYY	.250/6.35	30µ"/.76µ GXT	
50009-5YYYL	YYY	.188/4.78	30µ"/.76µ GXT	
50009-5YYYP	YYY	.470/11.94	30µ"/.76µ GXT	
50009-5YYYR	YYY	.250/6.35	30µ"/.76µ GXT	
50009-XX005	100	.177/4.50	50µ"/1.27µ Au	SHT 4
50009-XX034	300	.533/13.54	30µ"/.76µ GXT	SHT 5
50009-XX067	100	.177/4.50	50µ"/1.27µ Au	SHT 6
50009-XX076	200	.177/4.50	30µ"/.76µ Au	SHT 7
50009-XX124	140	.603/15.32	50µ"/1.27µ Au	SHT 8
50009-XX187	400	SEE SHT 9	30µ"/.76µ Au	SHT 9
50009-XX188	320	SEE SHT 10	50µ"/1.27µ GXT	SHT 10
50009-XX189	320	SEE SHT 11	50µ"/1.27µ GXT	SHT 11
50009-8YYYG	YYY	.250/6.35	30µ"/.76µ Au	SEE ALSO NOTE 12
50009-XX190	220	SEE SHT 12	30µ"/.76µ GXT	SHT 12
50009-XX191	140	SEE SHT 13	30µ"/.76µ GXT	SHT 13
50009-XX192	140	SEE SHT 14	30µ"/.76µ GXT	SHT 14

NOTES:

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

PRODUCT NUMBERING CODE FOR SELECT LOAD PART NUMBERS:
50009 – XXYYY LF
- LF — LEAD FREE OPTION
- YYY — SEQUENCE NUMBER
- XX — ALWAYS 'XX'
- 50009 — 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 x NO. OF COLUMNS + .75/19.1
DIMENSION "B" = .100/2.54 x NO. OF COLUMNS + .450/11.43,
DIMENSION "C" = .100/2.54 x NO. OF COLUMNS – .100/2.54
DIMENSION "D" = .100/2.54 x NO. OF COLUMNS + .050/1.27

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

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

⑦ TO ASSURE PROPER INSTALLATION: TOOLING, AS SPECIFIED IN INSTRUCTION MANUAL 155915–001 MUST BE USED. PIN MATING LENGTH WILL BE ±.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.

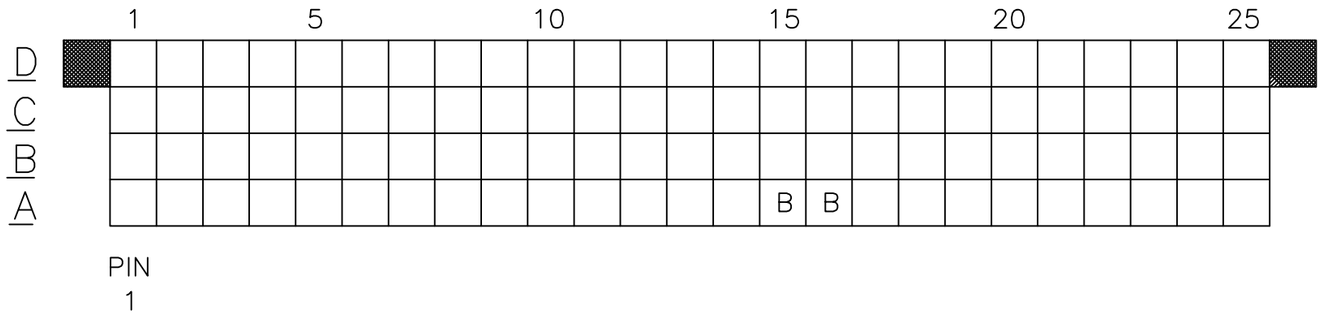
⑩ THIS PRODUCT IS NOT INTENDED TO BE EXPOSED TO A MANUFACTURING SOLDER PROCESS. HOWEVER, THE HOUSING MATERIAL WILL WITHSTAND HEAT UP TO THE 260° C.

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.

| | | |

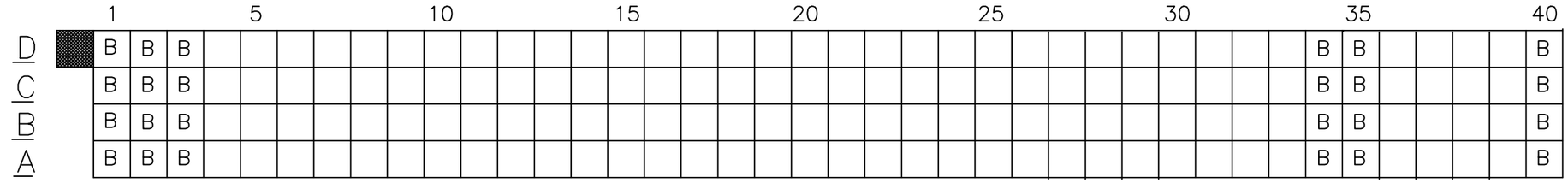
PRODUCT NO.	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 25	TOTAL NO. OF POSITIONS –100	NO. OF POSITIONS LOADED – 100	
				PRESS FIT STYLE	
		PLATING	QTY.	MATING LENGTH	TAIL LENGTH
50009–XX005	A	SEE SHEET 3	98	.220 / 5.59	.177 / 4.50
	B	SEE SHEET 3	2	.260 / 6.60	.177 / 4.50
50009–XX005LF	A	SEE SHEET 3	98	.220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

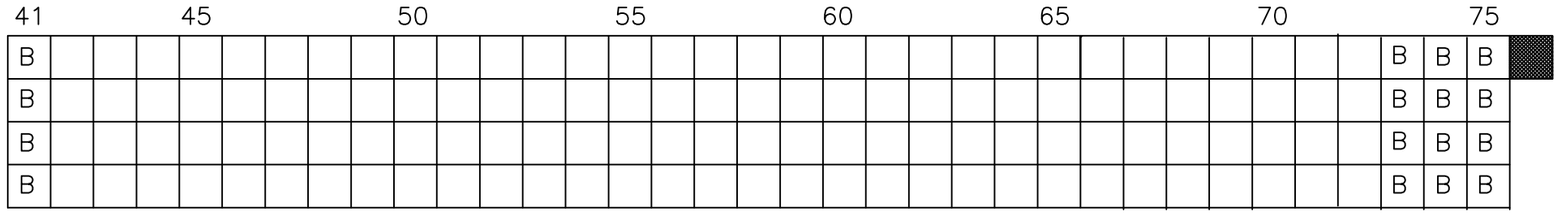


1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

| | | | |

PRODUCT NO.	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 75 | TOTAL NO. OF POSITIONS –300 | NO. OF POSITIONS LOADED – 300			
		PLATING	QTY.	PRESS FIT STYLE	
				MATING LENGTH	TAIL LENGTH
50009–XX034	A	SEE SHEET 3	260	.180 / 4.57	.533 / 13.54
	B	SEE SHEET 3	40	.220 / 5.59	.533 / 13.54
50009–XX034LF	A	SEE SHEET 3	260	.180 / 4.57	.533 / 13.54
	B	SEE SHEET 3	40	.220 / 5.59	.533 / 13.54





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
ltr: U | ecn no | dr | date	tolerances unless otherwise specified		
	angles: 0°±2°	linear: .XX±.01/.3; .XXX±.005/.13; .XXXX±.0020/.051	INCH/MM; scale 1:1
	dr: D.HORCHLER 2005-06-29		
	engr: D.HORCHLER 2005-06-29		
	chr: M JACOB 2014-01-29		
	appd: BIJU K PAUL 2014-01-29		
sheet index | revision sheet			

product family: HPC

title: 4 ROW VERTICAL HEADER W/PRESS–FIT PINS, 0 G.P.

dwg no: 50009 | sheet 5 of 14 | size: A3

type: Product Customer Drawing

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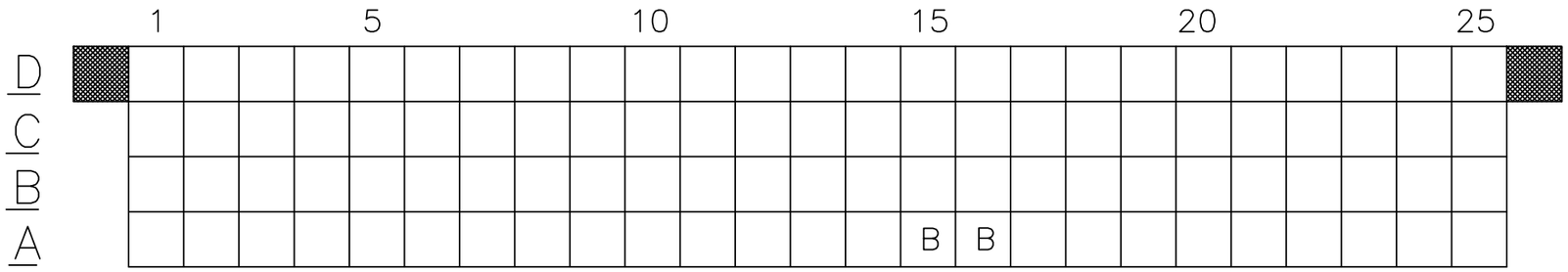
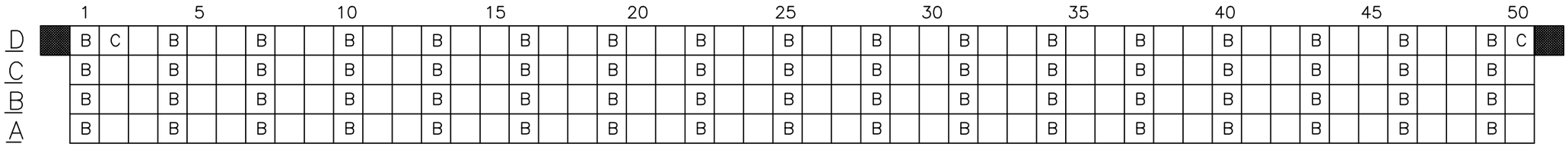
PRODUCT NO.	ITEM KEY	SIGNAL DATA		
		SIZE 4 x 25	TOTAL NO. OF POSITIONS –100	NO. OF POSITIONS LOADED – 100
		CONTACT PLATING	QTY.	MATING LENGTH
50009–XX067	A	SEE SHEET 3	98	.200 / 5.08
	B	SEE SHEET 3	2	.240 / 6.10
50009–XX067LF	A	SEE SHEET 3	98	.200 / 5.08
	B	SEE SHEET 3	2	.240 / 6.10



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.

| | | |

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. 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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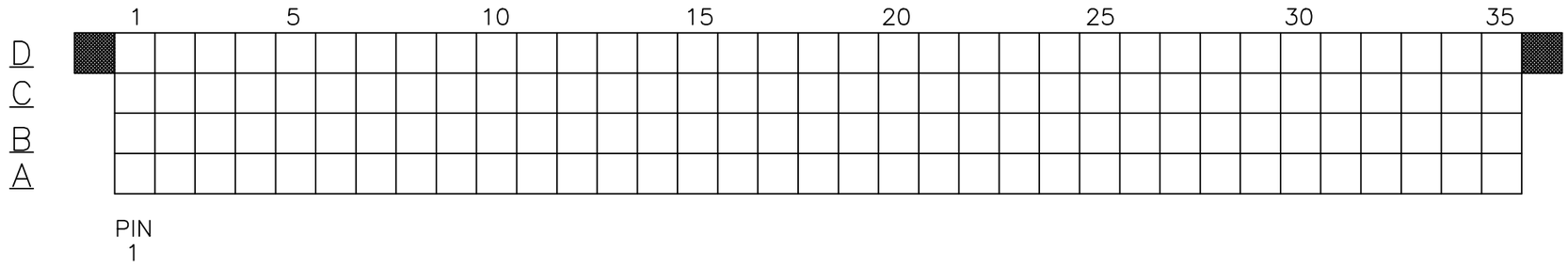
mat'l. code: SEE NOTE 3				surface: ISO 1302	tolerance: ISO 406 ISO 1101	projection	product family: HPC
ltr	ecn no	dr	date	tolerances unless otherwise specified			title: 4 ROW VERTICAL HEADER W/PRESS–FIT PINS, 0 G.P.
U				angles: 0°±2°	linear: .XX±.01/.3; .XXX±.005/.13; .XXXX±.0020/.051	INCH/MM	
						scale 1:1	
				dr: D.HORCHLER	2005–06–29		dwg no: 50009 sheet 7 of 14 size: A3
				engr: 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.	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.

| | | | |

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	A	A			A				A					A			A			A			A		
C	A	A				C	A			A	A	A	B			A			A			A			A
B	A	A			C			A	A			A			A			A			A			C	
A	A	A			A			A			A			A			A			A			A		

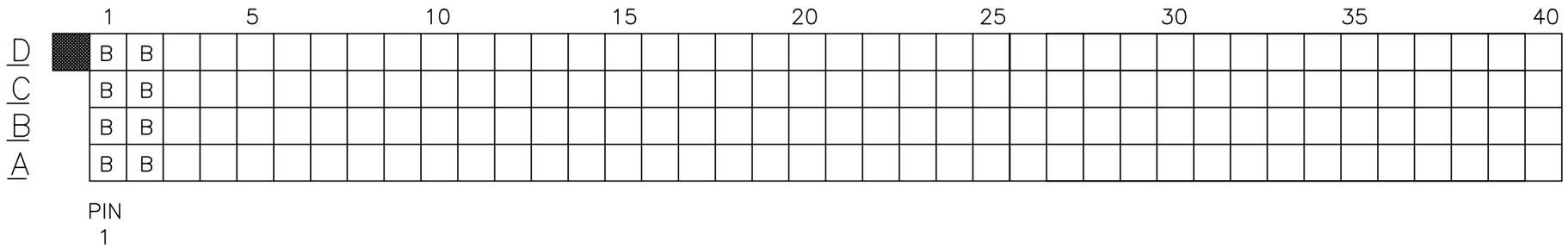
PIN 1

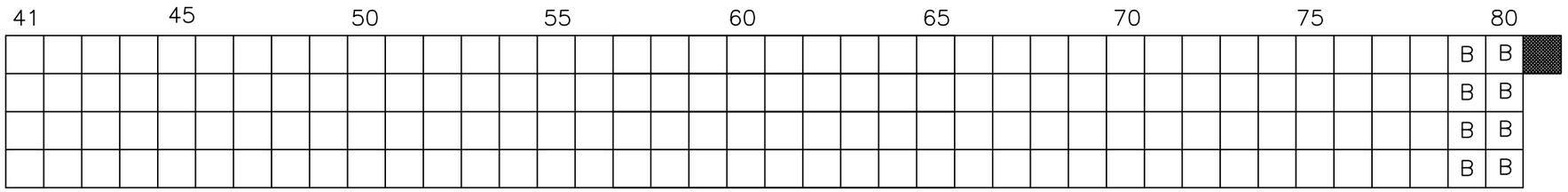
	26				30				35				40				45							50	
	A			A			A			A			A			A	A	A	A	A	A	A			A
			A			A			A			A			A	A	A	A	A	A			C	C	C
		A			A			A			A			A	A	A	A	A	A	A	A	A	C	C
	A			A			A			A			A	A	A	A	A	A	A	A	A	A	C	C

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.

| | | | | | | |

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

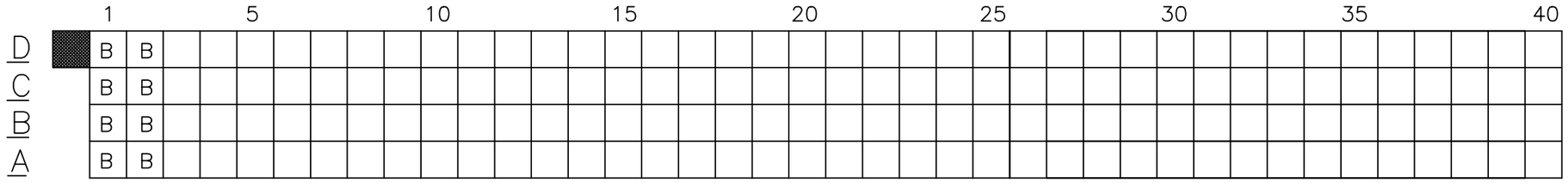


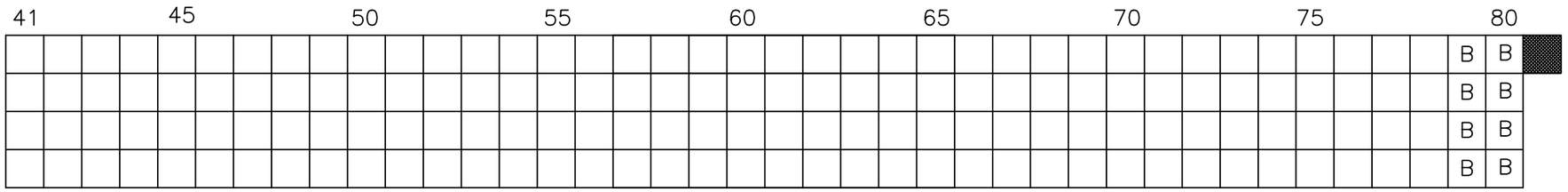


1. ALL POSITIONS ARE LOADED WITH "A" EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

| | | | |

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.

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

product family: HPC

title: 4 ROW VERTICAL HEADER W/PRESS–FIT PINS, 0 G.P.

dwg no: 50009 | sheet 11 of 14 | size: A3

type: Product Customer Drawing

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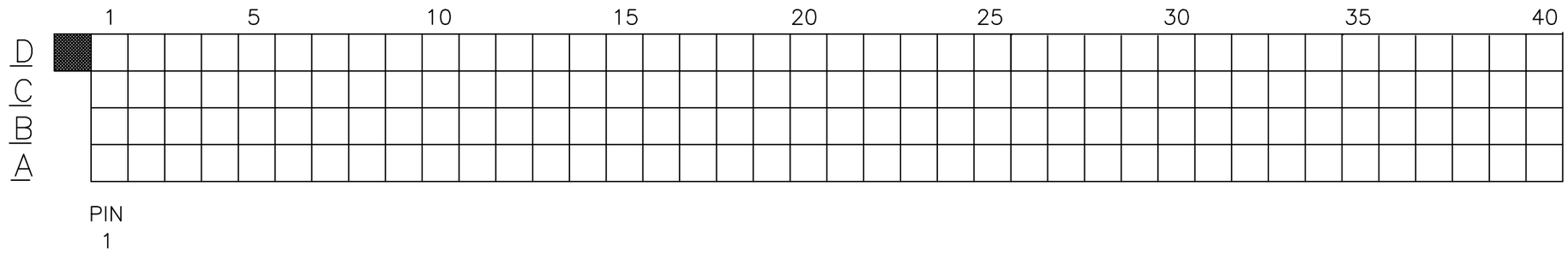
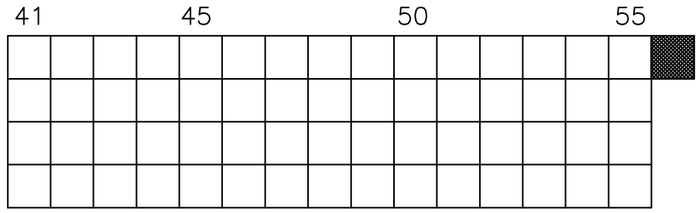
form: A3

PDS: Rev :U STATUS:Released Printed: Jan 29, 2014

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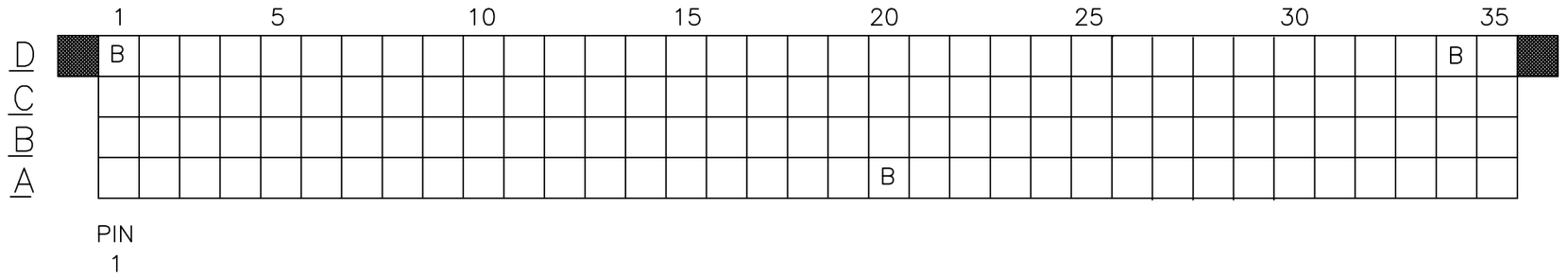
PRODUCT NO.	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 35	TOTAL NO. OF POSITIONS –140	NO. OF POSITIONS LOADED – 140	
		PLATING	QTY.	PRESS FIT STYLE	
				MATING LENGTH	TAIL LENGTH
50009–XX191	A	SEE SHEET 3	137	.220 / 5.59	.250 / 6.35
	B	SEE SHEET 3	3	.180 / 4.57	.250 / 6.35
50009–XX191LF	A	SEE SHEET 3	137	.220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



1. 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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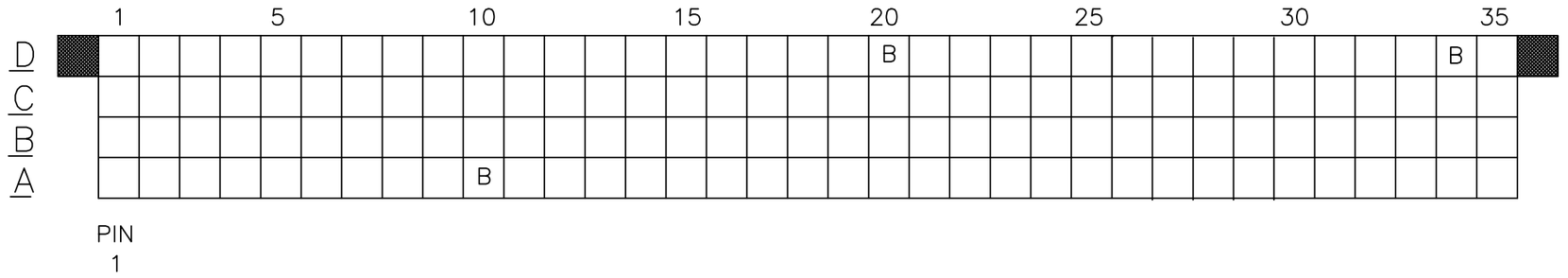
mat'l. code: SEE NOTE 3			surface: ISO 1302	tolerance: ISO 406, ISO 1101	projection	product family: HPC	
ltr	ecn no	dr date	tolerances unless otherwise specified			title: 4 ROW VERTICAL HEADER W/PRESS–FIT PINS, 0 G.P.	
U			angles: 0°±2°	linear: .XX±.01/.3; .XXX±.005/.13; .XXXX±.0020/.051	INCH/MM		
					scale 1:1		
			dr: D.HORCHLER 2005-06-29			dwg no: 50009	sheet 13 of 14 / size A3
			engr: D.HORCHLER 2005-06-29				
			chr: M JACOB 2014-01-29			type: Product Customer Drawing	
			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–XX192	A	SEE SHEET 3	137	.220 / 5.59	.250 / 6.35
	B	SEE SHEET 3	3	.180 / 4.57	.250 / 6.35
50009–XX192LF	A	SEE SHEET 3	137	.220 / 5.59	.250 / 6.35
	B	SEE SHEET 3	3	.180 / 4.57	.250 / 6.35



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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