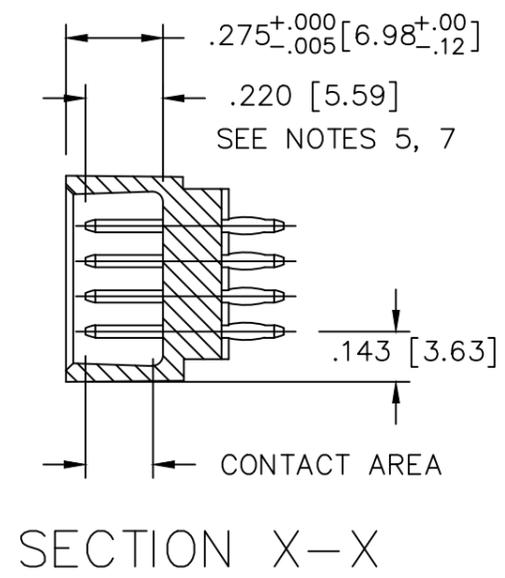
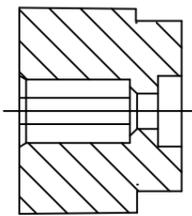
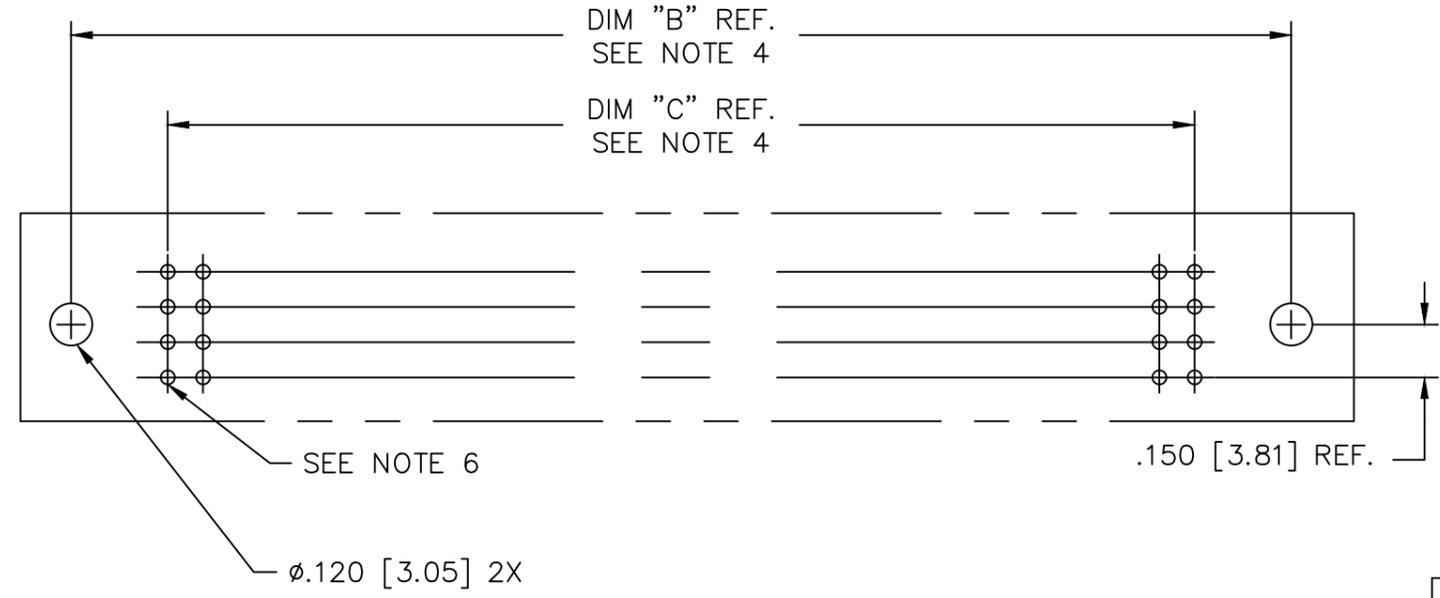


PRODUCT NO.
SEE TABLE

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 INCH/MM scale 1:1	product family HPC
ltr	ecn no	dr	date	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.	
T				dwg no 50009	
				sheet 2 of 11 size A3	
				type Product Customer Drawing	
sheet index	revision sheet				

PRODUCT NO. NOTE 11	NUMBER OF POSITIONS	TAIL LENGTH ±.015/.38	CONTACT PLATING
50009-1YYA	YYY	.177/4.50	30μ"/.76μ Au
50009-1YYC	YYY	.533/13.54	30μ"/.76μ Au
50009-1YYD	YYY	.733/18.62	30μ"/.76μ Au
50009-1YYG	YYY	.250/6.35	30μ"/.76μ Au
50009-1YYL	YYY	.188/4.78	30μ"/.76μ Au
50009-1YYP	YYY	.470/11.94	30μ"/.76μ Au
50009-1YYR	YYY	.250/6.35	30μ"/.76μ Au
50009-3YYA	YYY	.177/4.50	50μ"/1.27μ Au
50009-3YYC	YYY	.533/13.54	50μ"/1.27μ Au
50009-3YYD	YYY	.733/18.62	50μ"/1.27μ Au
50009-3YYG	YYY	.250/6.35	50μ"/1.27μ Au
50009-3YYL	YYY	.188/4.78	50μ"/1.27μ Au
50009-3YYP	YYY	.470/11.94	50μ"/1.27μ Au
50009-3YYR	YYY	.250/6.35	50μ"/1.27μ Au
50009-5YYA	YYY	.177/4.50	30μ"/.76μ GXT
50009-5YYC	YYY	.533/13.54	30μ"/.76μ GXT
50009-5YYD	YYY	.733/18.62	30μ"/.76μ GXT
50009-5YYG	YYY	.250/6.35	30μ"/.76μ GXT
50009-5YYL	YYY	.188/4.78	30μ"/.76μ GXT
50009-5YYP	YYY	.470/11.94	30μ"/.76μ GXT
50009-5YYR	YYY	.250/6.35	30μ"/.76μ GXT
50009-XX005	100	.177/4.50	50μ"/1.27μ Au
50009-XX034	300	.533/13.54	30μ"/.76μ GXT
50009-XX067	100	.177/4.50	50μ"/1.27μ Au
50009-XX076	200	.177/4.50	30μ"/.76μ Au
50009-XX124	140	.603/15.32	50μ"/1.27μ Au
50009-XX187	400	SEE SHT 9	30μ"/.76μ Au
50009-XX188	320	SEE SHT 10	50μ"/1.27μ GXT
50009-XX189	320	SEE SHT 11	50μ"/1.27μ GXT
50009-8YYG	YYY	.250/6.35	30μ"/.76μ Au

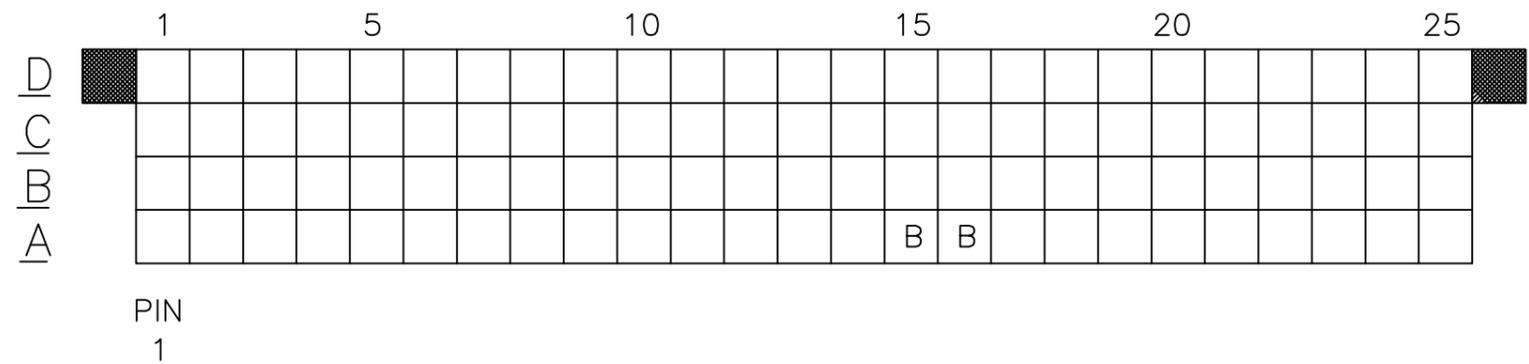
SHT 4
SHT 5
SHT 6
SHT 7
SHT 8
SHT 9
SHT 10
SHT 11
SEE ALSO NOTE 12

NOTES:

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

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
T				angles linear .XX±.01/.3 .XXX±.005/.13 0°±2' .XXX±.0020/.051	4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
				dr D.HORCHLER 2005-06-29	dwg no 50009
				enr D.HORCHLER 2005-06-29	sheet 3 of 11 size A3
				chr M JACOB 2012-12-21	type Product Customer Drawing
				appd BIJU K PAUL 2012-12-21	
sheet index	revision sheet				

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	title
T				angles linear .XX±.01/.3 .XXX±.005/.13 0°±2' .XXX±.0020/.051	INCH/MM scale 1:1
		dr	D.HORCHLER 2005-06-29		dwg no 50009
		enr	D.HORCHLER 2005-06-29		sheet 4 of 11 size A3
		chr	M JACOB 2012-12-21		type Product Customer Drawing
		appd	BIJU K PAUL 2012-12-21		
sheet index	revision sheet				



Copyright FCI

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

PIN
1

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

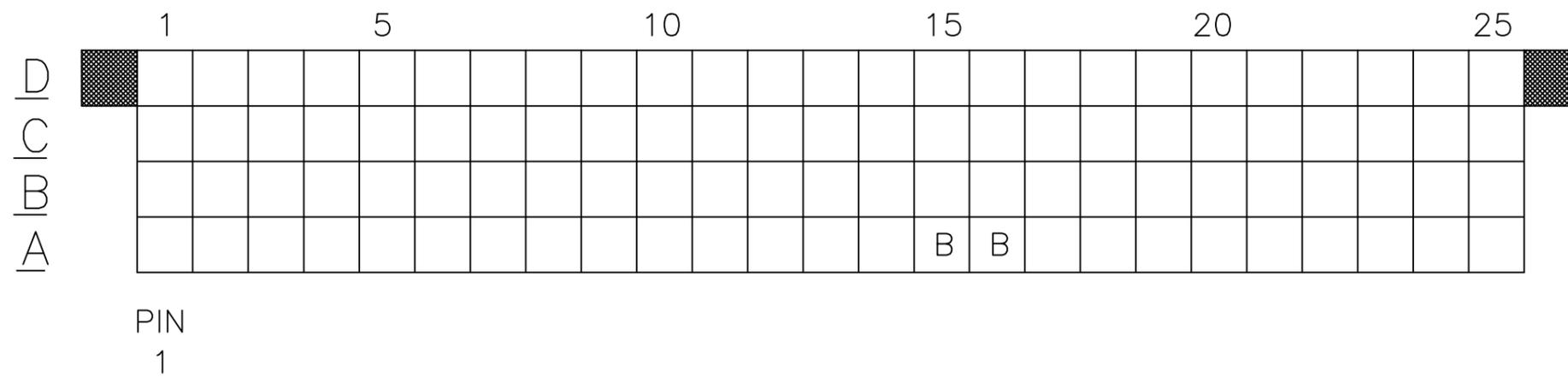
- ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
- COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.		
T				angles	linear			dwg no 50009		
				0°±2'				sheet 5 of 11 size A3		
				dr	D.HORCHLER	2005-06-29			type Product Customer Drawing	
				enr	D.HORCHLER	2005-06-29				
				chr	M JACOB	2012-12-21				
				appd	BIJU K PAUL	2012-12-21				
sheet index	revision sheet									



Copyright FCI

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 	product family HPC
ltr T	ecn no	dr	date	tolerances unless otherwise specified angles linear .XX±.01/.3 0°±2' .XXX±.005/.13 .XXX±.0020/.051	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
dr		D.HORCHLER 2005-06-29		 INCH/MM scale 1:1	sheet 6 of 11 size
enr		D.HORCHLER 2005-06-29			50009 A3
chr		M JACOB 2012-12-21			type Product Customer Drawing
appd		BIJU K PAUL 2012-12-21			
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	B	B	B	B
A	B	B	B	B	B	B	B	B	B	B	B	B

PIN
1

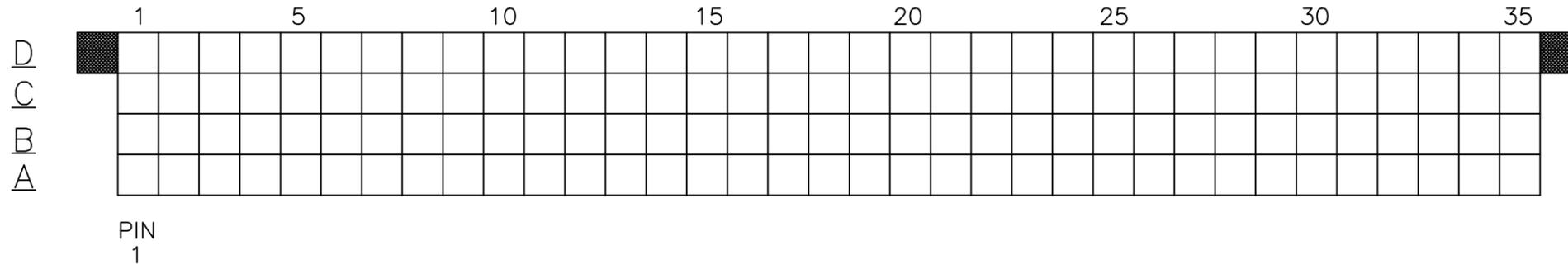
1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
T				angles linear .XX±.01/.3 0°±2'	INCH/MM scale 1:1
		dr	D.HORCHLER	2005-06-29	dwg no 50009
		enr	D.HORCHLER	2005-06-29	sheet 7 of 11 size A3
		chr	M JACOB	2012-12-21	type Product Customer Drawing
		appd	BIJU K PAUL	2012-12-21	
sheet index	revision sheet				



Copyright FCI

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	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
T				angles linear .XX±.01/.3 .XXX±.005/.13 0°±2' .XXX±.0020/.051	
				dr D.HORCHLER 2005-06-29 enr D.HORCHLER 2005-06-29 chr M JACOB 2012-12-21 appd BIJU K PAUL 2012-12-21	
sheet index	revision sheet				scale 1:1 dwg no 50009 sheet 8 of 11 size A3 type Product Customer Drawing

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
<u>D</u>	A	A	A	A	A	A
<u>C</u>	A	A	C	A	A	A
<u>B</u>	A	A	C	A	A	C
<u>A</u>	A	A	A	A	A	A

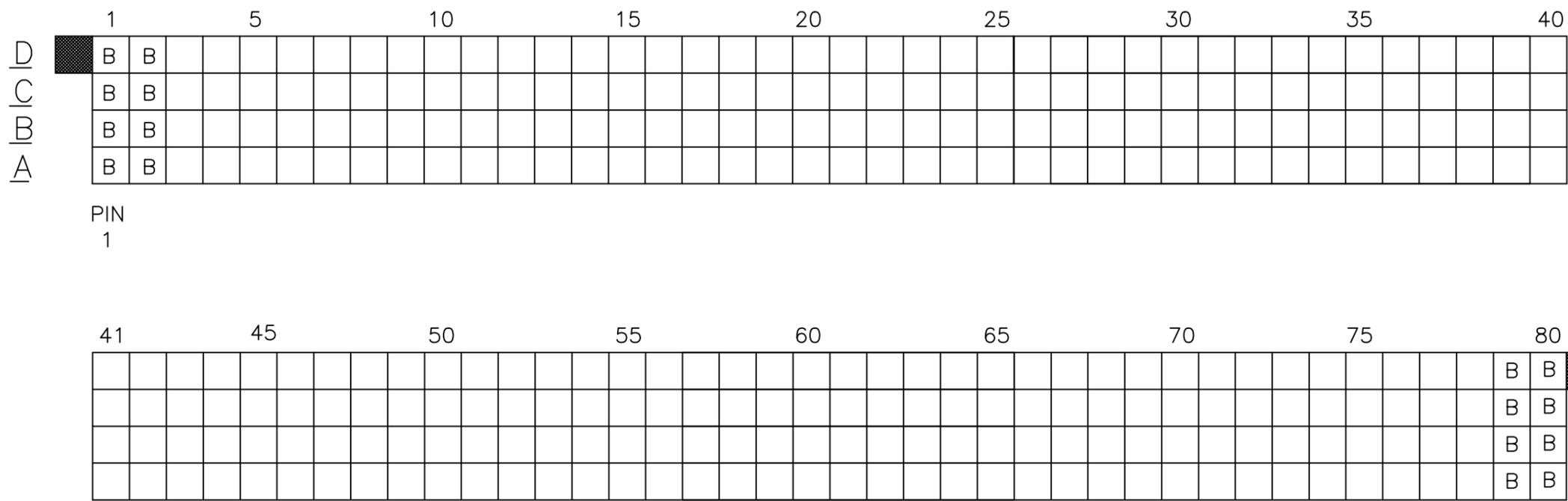
PIN
1

	26	30	35	40	45	50
	A	A	A	A	A	A
		A	A	A	A	C
	A	A	A	A	A	C
	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 	product family HPC
ltr	ecn no	dr	date	tolerances unless otherwise specified	title
T				angles 0°±2'	4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
				linear .XX±.01/.3 .XXX±.005/.13 .XXX±.0020/.051	INCH/MM scale 1:1
		dr	D.HORCHLER	2005-06-29	dwg no
		enr	D.HORCHLER	2005-06-29	sheet 9 of 11
		chr	M JACOB	2012-12-21	50009
		appd	BIJU K PAUL	2012-12-21	A3
sheet index	revision sheet				type Product Customer Drawing

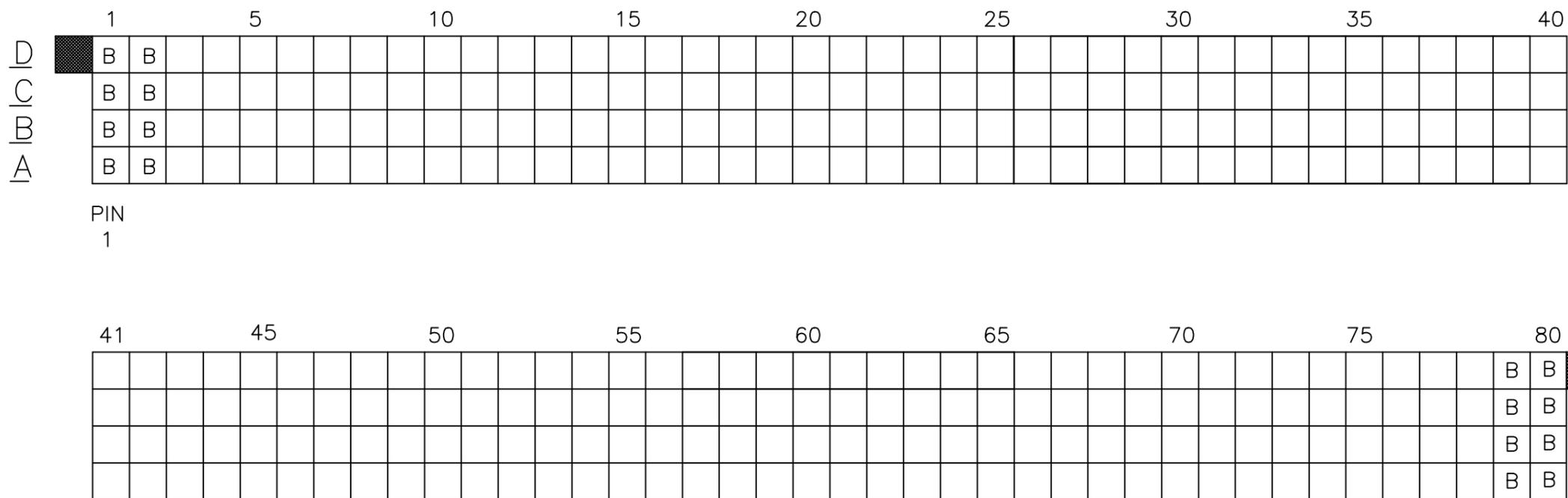
PRODUCT NUMBER	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 80	TOTAL NO. OF	POSITIONS -320	NO. OF POSITIONS LOADED - 320
		PRESS FIT STYLE			
		PIN PLATING	QTY.	MATING LENGTH	TAIL LENGTH
50009-XX188	A	SEE SHEET 3	304	.210 / 5.33	.533 / 13.54
	B	SEE SHEET 3	16	.244 / 6.20	.533 / 13.54
50009-XX188LF	A	SEE SHEET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



- ALL POSITIONS ARE LOADED WITH "A" 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 	product family HPC
ltr	ecn no	dr	date	tolerances unless otherwise specified	title
T				angles linear .XX±.01/.3 .XXX±.005/.13 0°±2° .XXX±.0020/.051	INCH/MM scale 1:1
		dr	D.HORCHLER	2005-06-29	sheet 10 of 11 size
		enr	D.HORCHLER	2005-06-29	50009 A3
		chr	M JACOB	2012-12-21	type Product Customer Drawing
		appd	BIJU K PAUL	2012-12-21	
sheet index	revision sheet				

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 	product family HPC
ltr	ecn no	dr	date	tolerances unless otherwise specified	title
T				angles linear 0°±2'	INCH/MM 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
				.XX±.01/.3 .XXX±.005/.13 .XXX±.0020/.051	scale 1:1
		dr	D.HORCHLER	2005-06-29	dwg no
		enr	D.HORCHLER	2005-06-29	sheet 11 of 11 size
		chr	M JACOB	2012-12-21	50009 A3
		appd	BIJU K PAUL	2012-12-21	type Product Customer Drawing
sheet index	revision sheet				