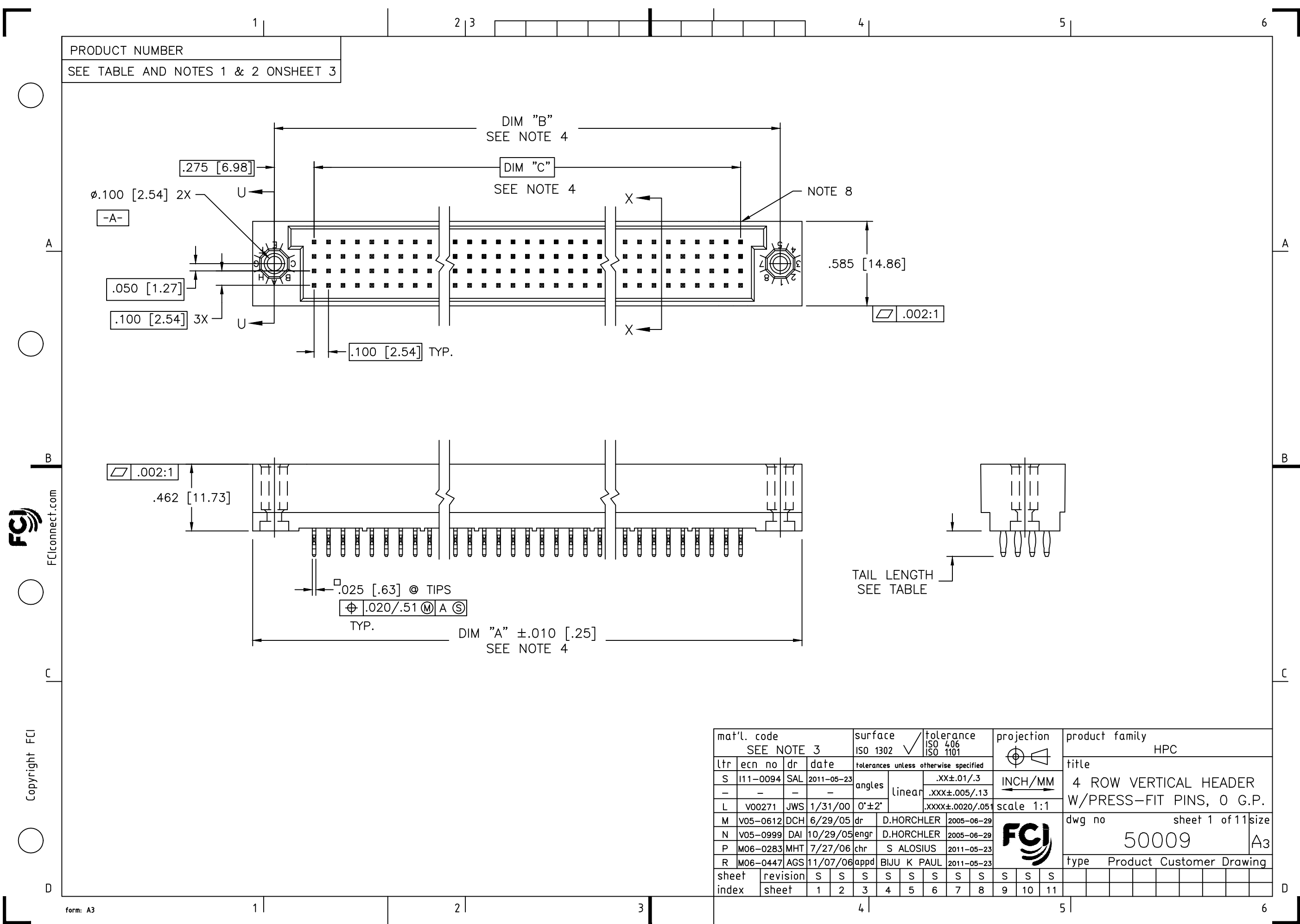
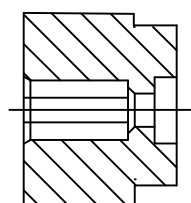


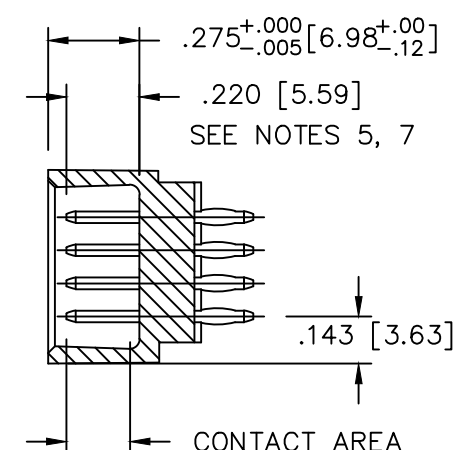


mat'l. code SEE NOTE 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 			product family HPC					
ltr	ecn no	dr	date	tolerances unless otherwise specified								title				
S	I11-0094	SAL	2011-05-23	angles	linear	.XX±.01/.3		INCH/MM			4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.					
-	-	-	-			.XXX±.005/.13										
L	V00271	JWS	1/31/00			0°±2'		.XXXX±.0020/.051		scale 1:1						
M	V05-0612	DCH	6/29/05	dr	D.HORCHLER	2005-06-29							dwg no		sheet 1 of 11	
N	V05-0999	DAI	10/29/05	engr	D.HORCHLER	2005-06-29					50009		A3			
P	M06-0283	MHT	7/27/06	chr	S ALOSIOUS	2011-05-23					type Product Customer Drawing					
R	M06-0447	AGS	11/07/06	appd	BIJU K PAUL	2011-05-23										
sheet	revision	S	S	S	S	S	S	S	S	S	S					
index	sheet	1	2	3	4	5	6	7	8	9	10	11				

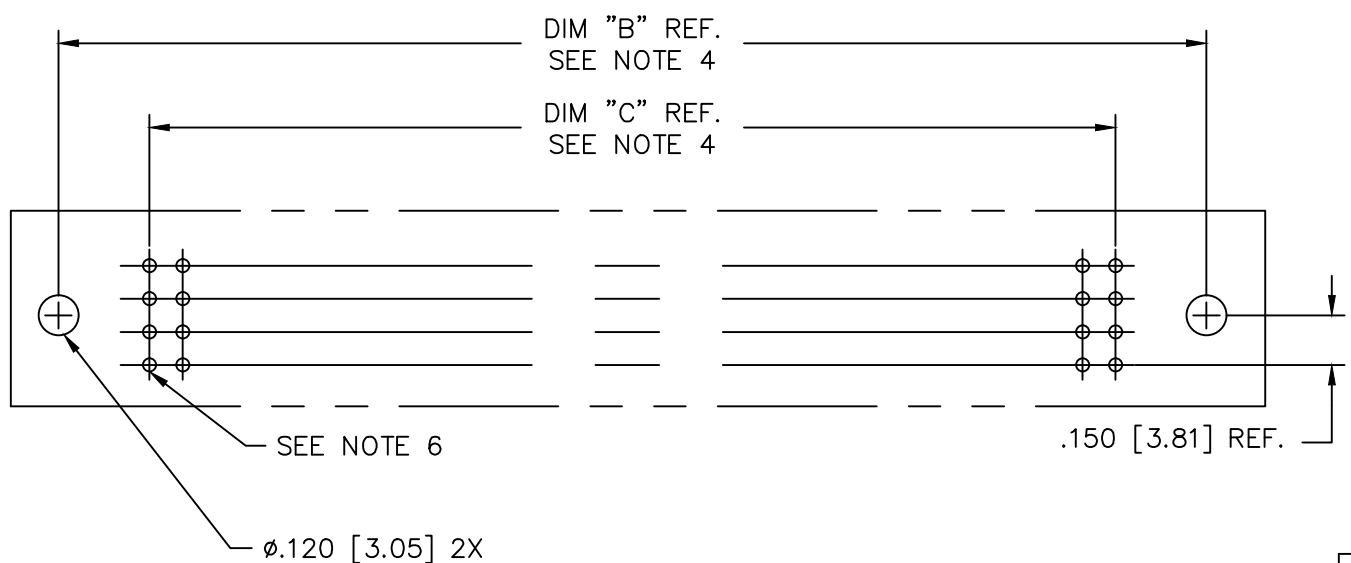
PRODUCT NO.
SEE TABLE



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		 scale 1:1	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.			
S				angles	linear					
				0°±2'						
				dr	D.HORCHLER	2005-06-29		dwg no		sheet 2 of 11
				engr	D.HORCHLER	2005-06-29		50009		A3
				chr	S ALOSIUS	2011-05-23		type Product Customer Drawing		
				appd	BIJU K PAUL	2011-05-23				
sheet index	revision sheet									

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PRODUCT NO. NOTE 11	NUMBER OF POSITIONS	TAIL LENGTH ±.015/.38	CONTACT PLATING
50009-1YYYYA	YYY	.177/4.50	30µ"/.76µ Au
50009-1YYCY	YYY	.533/13.54	30µ"/.76µ Au
50009-1YYCYD	YYY	.733/18.62	30µ"/.76µ Au
50009-1YYCYG	YYY	.250/6.35	30µ"/.76µ Au
50009-1YYCYL	YYY	.188/4.78	30µ"/.76µ Au
50009-1YYCYP	YYY	.470/11.94	30µ"/.76µ Au
50009-1YYCYR	YYY	.250/6.35	30µ"/.76µ Au
50009-3YYYYA	YYY	.177/4.50	50µ"/1.27µ Au
50009-3YYCY	YYY	.533/13.54	50µ"/1.27µ Au
50009-3YYCYD	YYY	.733/18.62	50µ"/1.27µ Au
50009-3YYCYG	YYY	.250/6.35	50µ"/1.27µ Au
50009-3YYCYL	YYY	.188/4.78	50µ"/1.27µ Au
50009-3YYCYP	YYY	.470/11.94	50µ"/1.27µ Au
50009-3YYCYR	YYY	.250/6.35	50µ"/1.27µ Au
50009-5YYYYA	YYY	.177/4.50	30µ"/.76µ GXT
50009-5YYCY	YYY	.533/13.54	30µ"/.76µ GXT
50009-5YYCYD	YYY	.733/18.62	30µ"/.76µ GXT
50009-5YYCYG	YYY	.250/6.35	30µ"/.76µ GXT
50009-5YYCYL	YYY	.188/4.78	30µ"/.76µ GXT
50009-5YYCYP	YYY	.470/11.94	30µ"/.76µ GXT
50009-5YYCYR	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-XX188LF	320	SEE SHT 10	50µ"/1.27µ GXT
50009-XX189LF	320	SEE SHT 11	50µ"/1.27µ GXT

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 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 .00453/1.151 DRILLED HOLE PLATED WITH .0003/.007 MIN.
SnPb OVER .001/.03 to .003/.08 Cu. PLATING TO ACHIEVE
A .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.

mat'l. code SEE NOTE 3		surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection INCH/MM		product family HPC	
lfr ecn no dr date		tolerances unless otherwise specified		linear .XX±.01/.3 .XXX±.005/.13 .XXX±.0020/.05		scale 1:1		title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.	
S		angles		O'±2'		F C I		dwg no sheet 3 of 11 size	
		dr D.HORCHLER		2005-06-29				50009 A3	
		enr D.HORCHLER		2005-06-29					
		chr S ALOSIUS		2011-05-23					
		appd BIJU K PAUL		2011-05-23					
sheet index		revision sheet						type Product Customer Drawing	

form: A3

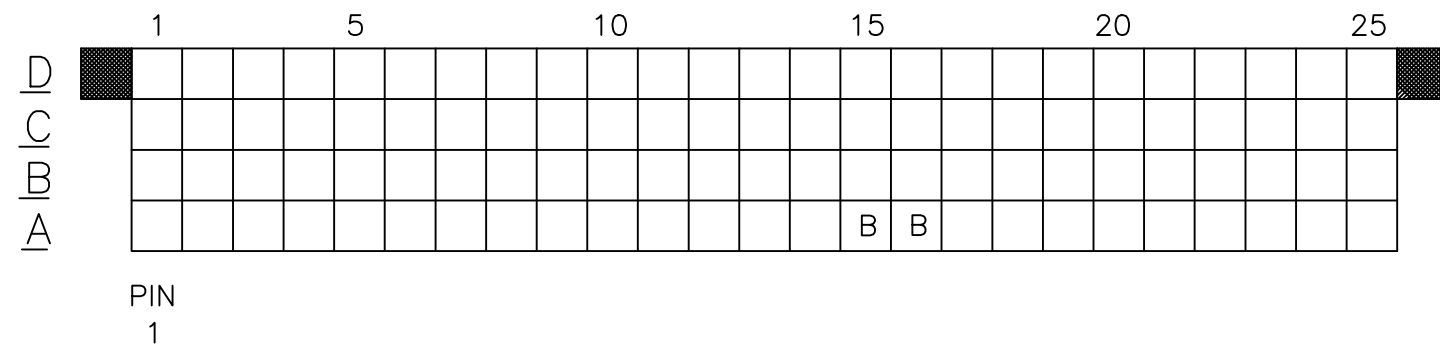
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PDM: Rev:S

STATUSReleased

Printed: Jul 02, 2011

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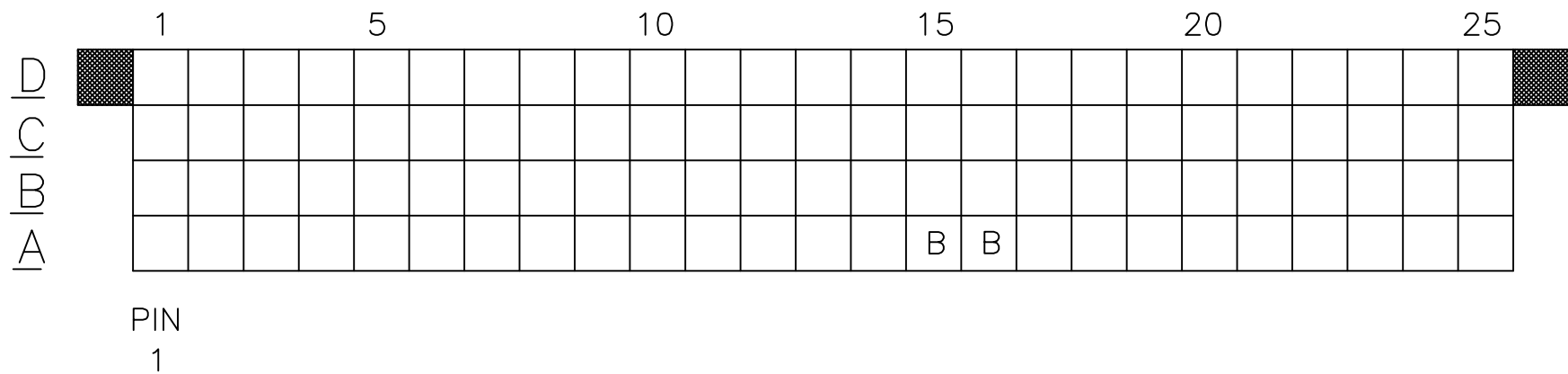


- ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
- COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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		INCH/MM 	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.			
S					angles	linear					
					0°±2°						
					dr	D.HORCHLER	2005-06-29				
					enr	D.HORCHLER	2005-06-29				
					chr	S ALOSIOUS	2011-05-23				
					appd	BIJU K PAUL	2011-05-23				
sheet index	revision sheet										

form: A3

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



- 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	tolerances unless otherwise specified			title
S				angles	linear		4 ROW VERTICAL HEADER
				0°±2°	.XX±.01/.3 .XXX±.005/.13 .XXXX±.0020/.051		W/PRESS-FIT PINS, 0 G.P.
				dr	D.HORCHLER	2005-06-29	dwg no
				enr	D.HORCHLER	2005-06-29	sheet 6 of 11
				chr	S ALOSIOUS	2011-05-23	size
				appd	BIJU K PAUL	2011-05-23	A3
sheet index	revision sheet						type
							Product Customer Drawing

form: A3

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	C	
<u>C</u>	B			B		B		B		B		B		B		B		B		B		
<u>B</u>	B			B		B		B		B		B		B		B		B		B		
<u>A</u>	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	 INCH/MM scale 1:1	title
S					angles linear .XX±.01/.3		4 ROW VERTICAL HEADER
					.XXX±.005/.13		W/PRESS-FIT PINS, 0 G.P.
					.XXXX±.0020/.051		dwg no sheet 7 of 11size
				dr	D.HORCHLER 2005-06-29		50009 A3
				enr	D.HORCHLER 2005-06-29		
				chr	S ALOSIOUS 2011-05-23		
				appd	BIJU K PAUL 2011-05-23		type Product Customer Drawing
sheet index	revision sheet						

form: A3

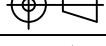
		1				2		3												4				5				6	
PRODUCT NUMBER	ITEM KEY	SIGNAL DATA																											
		SIZE 4 x 50		TOTAL NO. OF POSITIONS -200				NO. OF POSITIONS LOADED - 200																					
					PRESS FIT STYLE																								
		PIN PLATING		QTY.		MATING LENGTH				TAIL LENGTH																			
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		
C	A	A		C	A	
B	A	A		C		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	

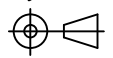
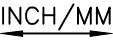
1. ALL POSITIONS ARE LOADED WITH "D" EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

mat'l. code SEE NOTE 3				surface ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family HPC
ltr	ecn	no	dr	tolerances unless otherwise specified		INCH/MM scale 1:1 	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
S				angles	linear		dwg no 50009 sheet 9 of 11 size A3
				0°±2°	.XX±.01/.3 .XXX±.005/.13 .XXXX±.0020/.051		
				dr	D.HORCHLER 2005-06-29		
				enr	D.HORCHLER 2005-06-29	type Product Customer Drawing	
				chr	S ALOSIOUS 2011-05-23		
				appd	BIJU K PAUL 2011-05-23		
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-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										
D C B A		B	B																	
		B	B																	
		B	B																	
		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. dwg no 50009 type Product Customer Drawing
S				angles	linear		
				0°±2'			
				dr	S. ALOSIOUS 2011-06-29		
				enr	S. ALOSIOUS 2011-06-29		sheet 11 of 11 size A3
				chr	S. ALOSIOUS 2011-06-29		
				appd	BIJU K PAUL 2011-06-29		
sheet index	revision sheet						

form: A3