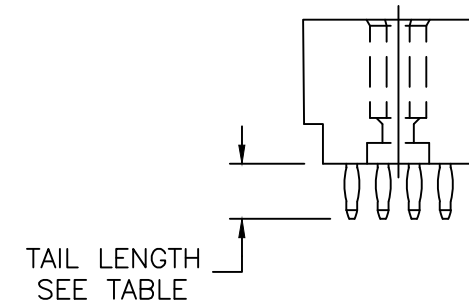
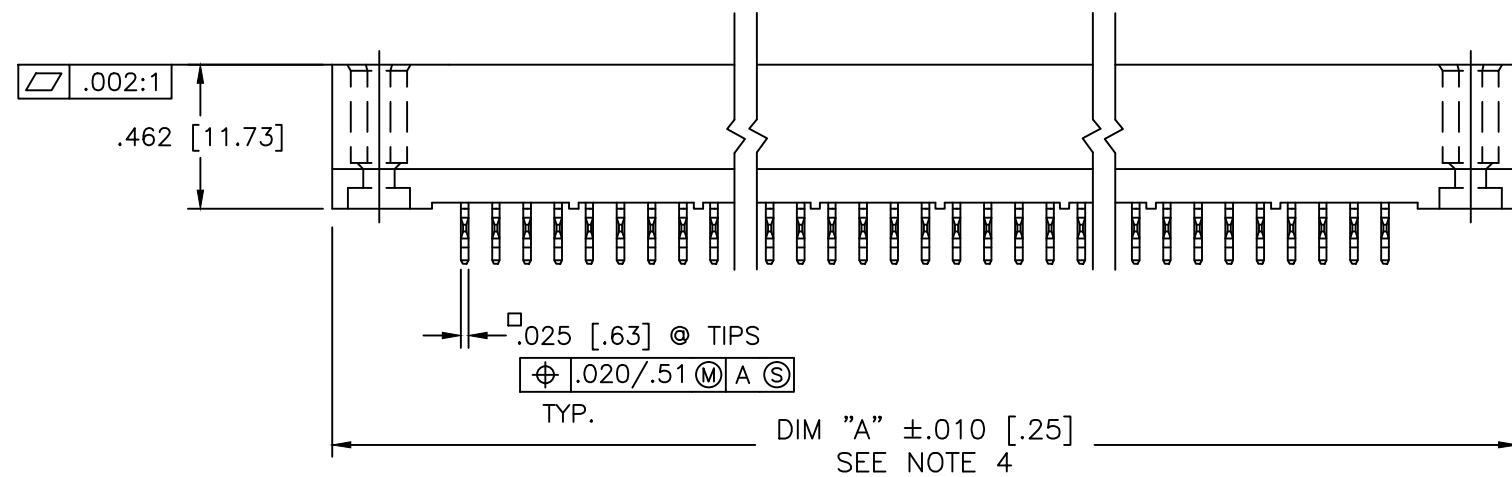
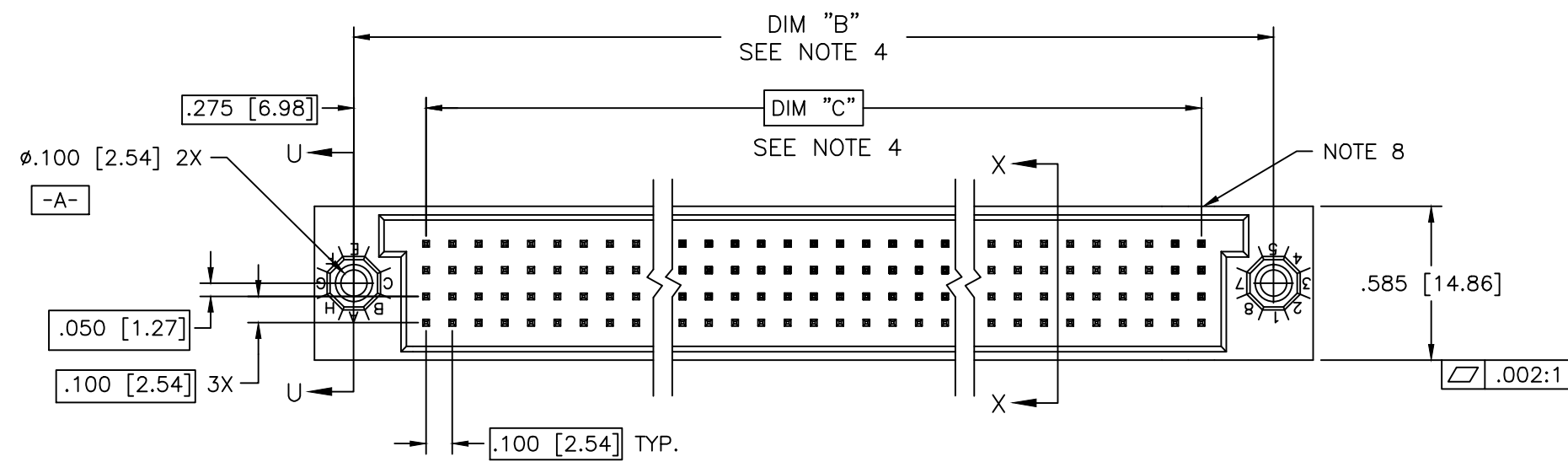


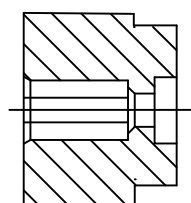
PRODUCT NUMBER
SEE TABLE AND NOTES 1 & 2 ONSHEET 3



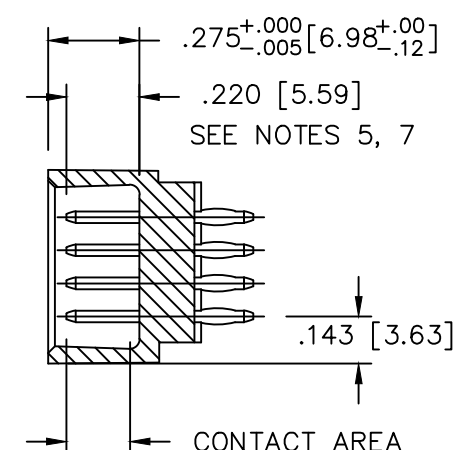
mat'l. code SEE NOTE 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection INCH/MM		product family HPC			
ltr	ecn no	dr	date	tolerances unless otherwise specified		linear		scale 1:1		title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.			
S	111-0094	SAL	2011-05-23	angles		.XX±.01/.3		INCH/MM		dwg no			
-	-	-	-	0°±2°		.XXX±.005/.13		scale 1:1		sheet 1 of 11			
L	V00271	JWS	1/31/00	dr		.XXXX±.0020/.051		scale 1:1		size			
M	V05-0612	DCH	6/29/05	dr		D.HORCHLER		2005-06-29		50009			
N	V05-0999	DAI	10/29/05	enr		D.HORCHLER		2005-06-29		A3			
P	M06-0283	MHT	7/27/06	chr		S ALOSUIS		2011-05-23		type			
R	M06-0447	AGS	11/07/06	appd		BIJU K PAUL		2011-05-23		Product Customer Drawing			
sheet	revision	S	S	S	S	S	S	S	S	S	S	S	S
index	sheet	1	2	3	4	5	6	7	8	9	10	11	

form: A3

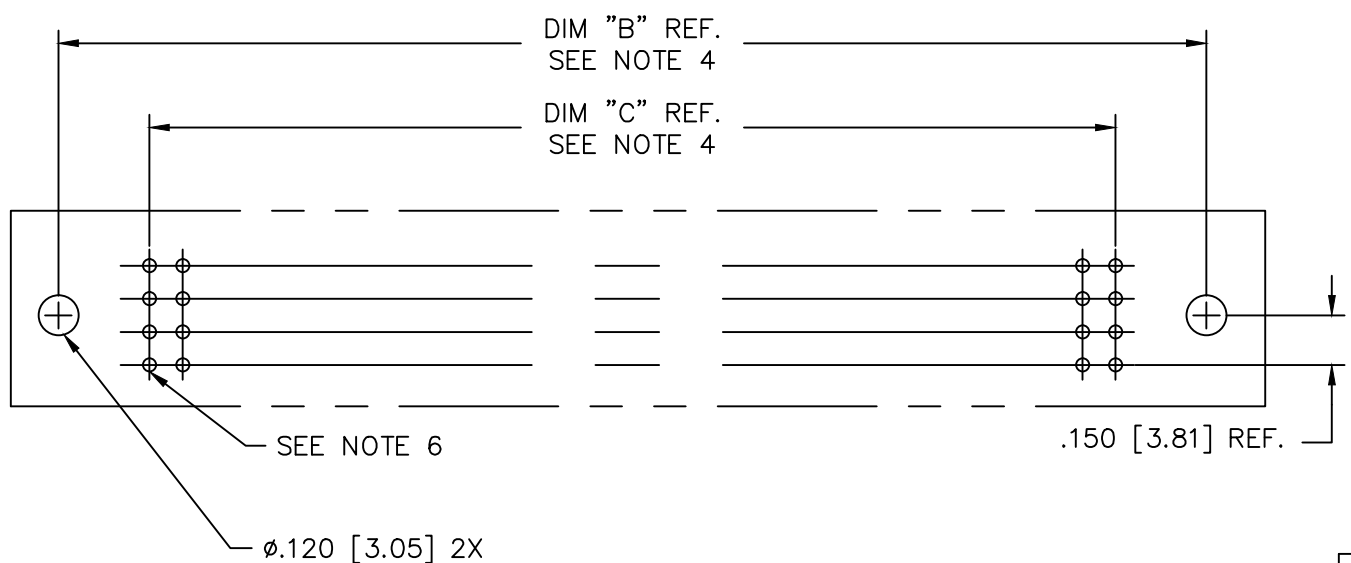
PRODUCT NO.
SEE TABLE



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		 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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form: A3

PRODUCT NO. NOTE 11	NUMBER OF POSITIONS	TAIL LENGTH ±.015/.38	CONTACT PLATING
50009-1YYYYA	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
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

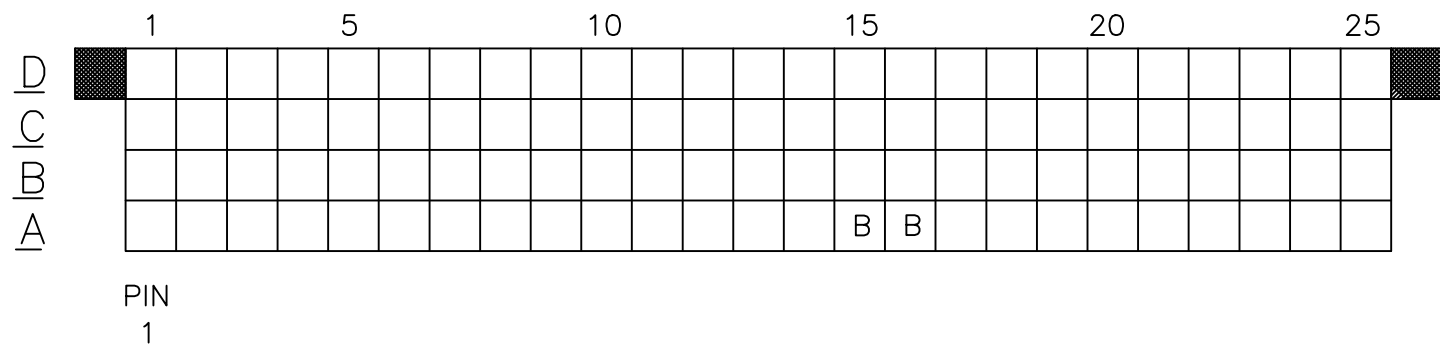
SHT 4
SHT 5
SHT 6
SHT 7
SHT 8
SHT 9
SHT 10
SHT 11

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 	product family HPC			
lfr	ecn no	dr	date	tolerances unless otherwise specified			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 3 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									

1		2	3									4		5		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								



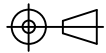
- ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
- COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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 scale 1:1 	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.		
S					angles	linear		dwg no 50009 sheet 4 of 11 size A3		
					0°±2°					
					dr	D.HORCHLER				
					enr	D.HORCHLER				
					chr	S ALOSIOUS				
					appd	BIJU K PAUL				
sheet index	revision sheet							type Product Customer Drawing		

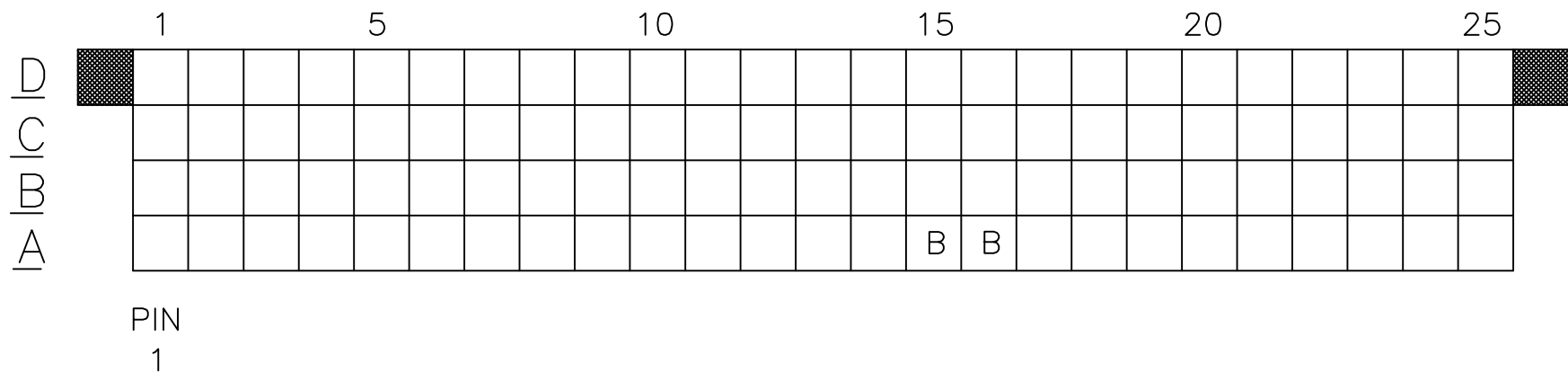
PRODUCT NO.	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 75	TOTAL NO. OF POSITIONS -300	NO. OF POSITIONS LOADED - 300	
		PLATING	QTY.	PRESS FIT STYLE	
				MATING LENGTH	TAIL LENGTH
50009-XX034	A	SEE SHEET 3	260	.180 / 4.57	.533 / 13.54
	B	SEE SHEET 3	40	.220 / 5.59	.533 / 13.54
50009-XX034LF	A	SEE SHEET 3	260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

- 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	tolerances unless otherwise specified			title
S				angles	linear	INCH/MM	4 ROW VERTICAL HEADER
				0°±2°	.XX±.01/.3 .XXX±.005/.13 .XXXX±.0020/.051	scale 1:1	W/PRESS-FIT PINS, 0 G.P.
				dr	D.HORCHLER	2005-06-29	dwg no
				enr	D.HORCHLER	2005-06-29	sheet 5 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

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	tolerances unless otherwise specified			title
S				angles	linear		4 ROW VERTICAL HEADER
				0°±2°			W/PRESS-FIT PINS, 0 G.P.
				dr	D.HORCHLER		dwg no
				enr	D.HORCHLER		sheet 6 of 11
				chr	S ALOSIOUS		size
				appd	BIJU K PAUL		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

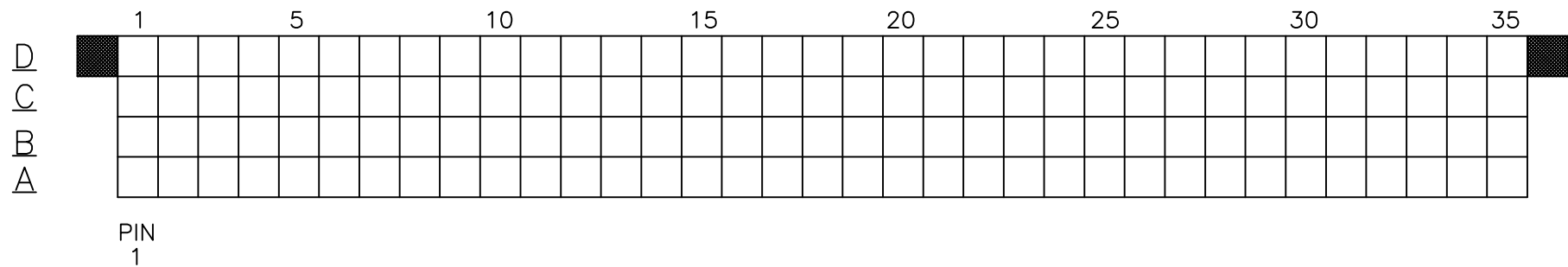
	1		5		10		15		20		25		30		35		40		45		50	
<u>D</u>	B	C		B		B		B		B		B		B		B		B		B	C	
<u>C</u>	B			B		B		B		B		B		B		B		B		B		
<u>B</u>	B			B		B		B		B		B		B		B		B		B		
<u>A</u>	B			B		B		B		B		B		B		B		B		B		
PIN																						
1																						

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

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



- 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			
S					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 8 of 11		
					chr	S ALOSIOUS	2011-05-23	50009		
					appd	BIJU K PAUL	2011-05-23	A3		
sheet index	revision sheet							type Product Customer Drawing		

		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	

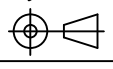
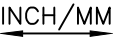
- ALL POSITIONS ARE LOADED WITH "D" EXCEPT AS SHOWN.
- COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

mat'l. code SEE NOTE 3				surface ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family HPC
ltr	ecn	no	dr	tolerances unless otherwise specified		INCH/MM scale 1:1 	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		dwg no
				enr	D.HORCHLER		sheet 9 of 11
				chr	S ALOSIOUS		size
				appd	BIJU K PAUL		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-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	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.
S				angles	linear .xx±.01/.3		
					.xxx±.005/.13		
				0'±2'	.xxxx±.0020/.051		
				dr	S. ALOSIOUS	2011-06-29	dwg no 50009 type Product Customer Drawing
				enr	S. ALOSIOUS	2011-06-29	
				chr	S. ALOSIOUS	2011-06-29	
				appd	BIJU K PAUL	2011-06-29	
sheet index	revision sheet						sheet 11 of 11 size A3