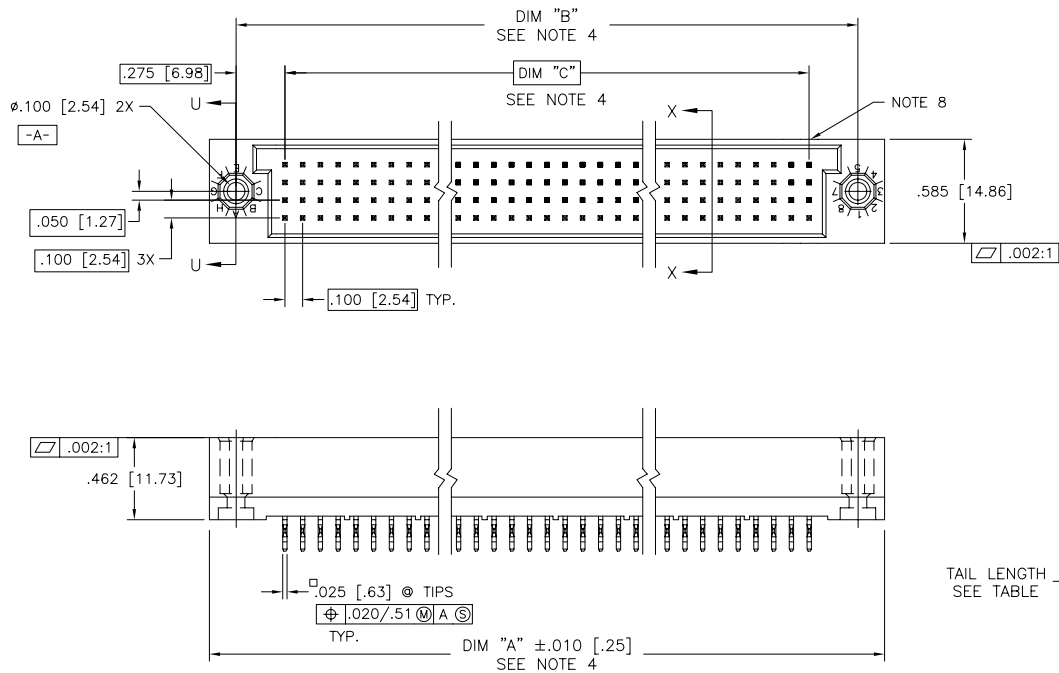


PRODUCT NUMBER  
SEE TABLE AND NOTES 1 & 2 ONSHEET 3

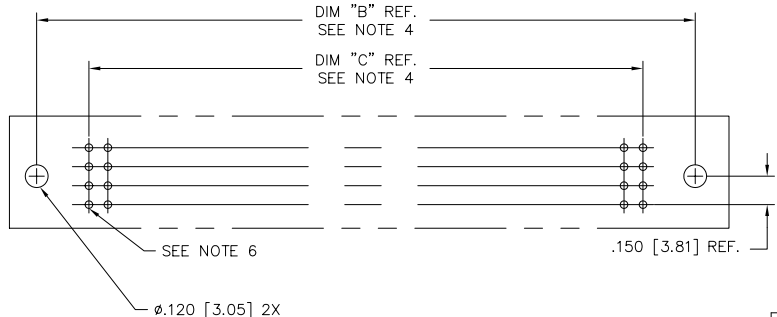
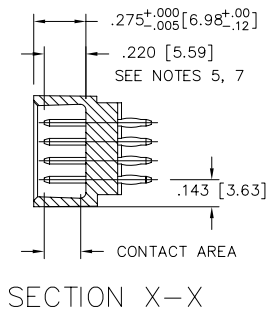
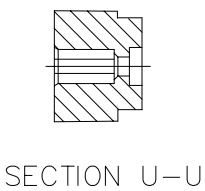


mat'l. code	SEE NOTE 3	surface	ISO 1302 ✓	tolerance	ISO 406	projection	product family
itr	ecr no	dr	date	tolerances unless otherwise specified	ISO 1101	INCH/MM	HPC
J	V81411	DLW	8/20/98	angles	.XXX±.01/3	scale 1:1	title
K	V82253	HTB	12/29/98	linear	.XXX±.005/.13		4 ROW VERTICAL HEADER
L	V00271	JWS	1/31/00	0°±2°	.XXXX±.0020/.051		W/PRESS-FIT PINS, 0 G.P.
M	V05-0612	DCH	6/29/05	dr	D.HORCHLER	6/29/05	dwg no
N	V05-0999	DAI	10/29/05	enrg	D.HORCHLER	6/29/05	sheet 1 of 9 size
P	M06-0283	MHT	7/27/06	chr	T.BREWBAKER	7/5/05	50009
R	M06-0447	AGS	11/07/06	appd	D.HORCHLER	7/5/05	A3
sheet	revision	R	R	R	R	R	type
index	sheet	1	2	3	4	5	Product Customer Drawing

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PRODUCT NO.  
SEE TABLE



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	product family HPC
ltr	ecr	no	dr	date	tolerances unless otherwise specified	scale 1:1	title
R					angles linear .XXX±.01/3 0°±2' .XXX±.005/-13 XXXX±.0020/.05		4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
					dr D.HORCHLER 6/29/05		dwg no 50009 sheet 2 of 9 size A3
					enr D.HORCHLER 6/29/05		
					chr T.BREWBAKER 7/5/05		
					app D.HORCHLER 7/5/05		
sheet index	revision sheet						type Product Customer Drawing

PRODUCT NO. NOTE 11	NUMBER OF POSITIONS	TAIL LENGTH ±.015/-.38	CONTACT PLATING
50009-1YXXA	YYY	.177/4.50	30μ"/.76μ Au
50009-1YXXC	YYY	.533/13.54	30μ"/.76μ Au
50009-1YXXD	YYY	.733/18.62	30μ"/.76μ Au
50009-1YXXG	YYY	.250/6.35	30μ"/.76μ Au
50009-1YXXL	YYY	.188/4.78	30μ"/.76μ Au
50009-1YXXP	YYY	.470/11.94	30μ"/.76μ Au
50009-1YXXR	YYY	.250/6.35	30μ"/.76μ Au
50009-3YXXA	YYY	.177/4.50	50μ"/1.27μ Au
50009-3YXXC	YYY	.533/13.54	50μ"/1.27μ Au
50009-3YXXD	YYY	.733/18.62	50μ"/1.27μ Au
50009-3YXXG	YYY	.250/6.35	50μ"/1.27μ Au
50009-3YXXL	YYY	.188/4.78	50μ"/1.27μ Au
50009-3YXXP	YYY	.470/11.94	50μ"/1.27μ Au
50009-3YXXR	YYY	.250/6.35	50μ"/1.27μ Au
50009-5YXXA	YYY	.177/4.50	30μ"/.76μ GXT
50009-5YXXC	YYY	.533/13.54	30μ"/.76μ GXT
50009-5YXXD	YYY	.733/18.62	30μ"/.76μ GXT
50009-5YXXG	YYY	.250/6.35	30μ"/.76μ GXT
50009-5YXXL	YYY	.188/4.78	30μ"/.76μ GXT
50009-5YXXP	YYY	.470/11.94	30μ"/.76μ GXT
50009-5YXXR	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

SHT 4  
SHT 5  
SHT 6  
SHT 7  
SHT 8  
SHT 9

#### 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
- 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. Sn/Pb 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.

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	angles linear	INCH/MM	title
R	0°±2"	linear	scale 1:1	4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
dr D.HORCHLER 6/29/05	engr D.HORCHLER 6/29/05	chr T.BREWBAKER 7/5/05	appd D.HORCHLER 7/5/05	dwg no 50009 sheet 3 of 9 size A3
sheet index	revision sheet			type Product Customer Drawing

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		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									

	1	5	10	15	20	25
D						
C						
B						
A					B B	

PIN 1

- 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	projection	product family
ltr	ecr no	dr	date	tolerances unless otherwise specified	ISO 1101	INCH/MM	HPC
R				angles	linear .XXX±.01/3	scale 1:1	title
				0'±2"	linear .XXX±.005/13		4 ROW VERTICAL HEADER
				dr	D.HORCHLER 6/29/05		W/PRESS-FIT PINS, 0 G.P.
				enrg	D.HORCHLER 6/29/05		dwg no
				chr	T.BREWBAKER 7/5/05		50009
				appd	D.HORCHLER 7/5/05		sheet 4 of 9 size
sheet index	revision sheet						A3
							type Product Customer Drawing

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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
A	B	B						B	B

PIN  
1

	41	45	50	55	60	65	70	75
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 R	ecn no	dr date	angles linear 0°±2°	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
			dr D.HORCHLER 6/29/05	dwg no 50009
			enfr D.HORCHLER 6/29/05	sheet 5 of 9 size A3
			chr T.BREWBAKER 7/5/05	
			appd D.HORCHLER 7/5/05	
sheet index	revision sheet			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	5	10	15	20	25
D						
C						
B						
A						

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 R	ecn no	dr date	angles linear 0°±2°	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
			dr D.HORCHLER 6/29/05	dwg no 50009
			enfr D.HORCHLER 6/29/05	sheet 6 of 9 size A3
			chr T.BREWBAKER 7/5/05	type Product Customer Drawing
			appd D.HORCHLER 7/5/05	
sheet index	revision sheet			

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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
B	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		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	projection	product family
ltr	ecn no dr date	ISO 1101	tolerances unless otherwise specified	linear	ISO 1101	INCH/MM	HPC
R		angles	XXX.01/3	0'±2"	XXXX±.0020/.05	scale 1:1	title
		dr	D.HORCHLER	6/29/05			4 ROW VERTICAL HEADER
		enrg	D.HORCHLER	6/29/05			W/PRESS-FIT PINS, 0 G.P.
		chr	T.BREWBAKER	7/5/05			dwg no
		appd	D.HORCHLER	7/5/05			50009
sheet index	revision sheet						type Product Customer Drawing

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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	5	10	15	20	25	30	35
D								
C								
B								
A								

PIN 1

- 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 R	ecm no dr	date	angles linear 0°±2'	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
			tolerances unless otherwise specified XXX±.01/3 XXX±.005/.13 XXXX±.0020/.05	scale 1:1
	dr	D.HORCHLER	6/29/05	dwg no 50009
	enfr	D.HORCHLER	6/29/05	sheet 8 of 9 size A3
	chr	T.BREWBAKER	7/5/05	
	appd	D.HORCHLER	7/5/05	
sheet index	revision sheet			type Product Customer Drawing

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PRODUCT NUMBER	ITEM KEY	SIGNAL DATA			
		SIZE 4 x 50	TOTAL NO. OF POSITIONS -200	NO. OF POSITIONS LOADED - 200	
		PRESS FIT STYLE			
50009-XX187		PIN PLATING	QTY.	MATING LENGTH	TAIL LENGTH
	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
C	A		C	A	A	A
B	A	A	C	A	A	C
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	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 INCH/MM	product family HPC
ltr R	ecn no	dr date	angles linear	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
			scale 1:1	dwg no 50009
				sheet 9 of 9 size A3
				type Product Customer Drawing
sheet index	revision sheet			

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