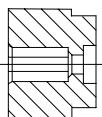


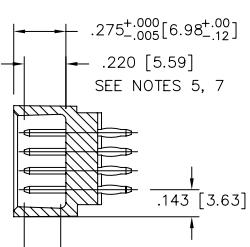
PDM: Rev:R STATUS:Released Printed: Feb 09, 2010

PRODUCT NO.
SEE TABLE

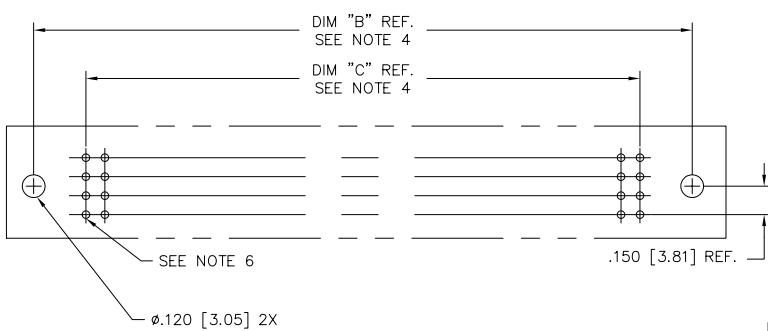
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SECTION U-U



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
Itr	ecn	no	dr	date	tolerances unless otherwise specified
R					XX±.01/.3
					XXX±.005/.13
					0°±2°
					XXXX±.0020/.05
			dr	D.HORCHLER	6/29/05
			engr	D.HORCHLER	6/29/05
			chr	T.BREWBAKER	7/5/05
			oppd	D.HORCHLER	7/5/05
sheet	revision				
index	sheet				

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form: A3

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

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 - XXYY 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 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.

mat'l. code SEE NOTE 3		surface ISO 1302 ✓		tolerance ISO 1101		projection	product family
ltr	ecn	no	dr	date	tolerances unless otherwise specified		title
R					.XX±.01/.3	INCH/MM	4 ROW VERTICAL HEADER
					angles linear	scale 1:1	W/PRESS-FIT PINS, 0 G.P.
					Ø.0±2°	xxxxx.0020/.05	
					dr	D.HORCHLER 6/29/05	dwg no sheet 3 of 9 size
					engr	D.HORCHLER 6/29/05	50009 A3
					chr	T.BREWBAKER 7/5/05	
					oppd	D.HORCHLER 7/5/05	
sheet	revision						type Product Customer Drawing
index	sheet						

form: A3

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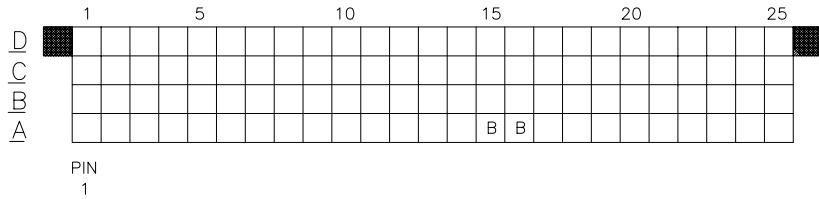
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1		2 3			4		5		6			
PRODUCT NO.		ITEM KEY			SIGNAL DATA							
					SIZE 4 x 25 TOTAL NO. OF POSITIONS -100 NO. OF POSITIONS LOADED - 100							
					PRESS FIT STYLE							
		PLATING		QTY.		MATING LENGTH		TAIL LENGTH				
50009-XX005		A		SEE SHEET 3		98		.220 / 5.59				
		B		SEE SHEET 3		2		.260 / 6.60				
50009-XX005LF		A		SEE SHEET 3		98		.220 / 5.59				
		B		SEE SHEET 3		2		.260 / 6.60				



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.

		1			2	3			4			5			6
PRODUCT NO.	ITEM KEY	SIGNAL DATA													
		SIZE 4 x 75		TOTAL NO. OF POSITIONS -300		NO. OF POSITIONS LOADED - 300		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								

A	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

B										B	B	B			
B										B	B	B			
B										B	B	B			
B										B	B	B			

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

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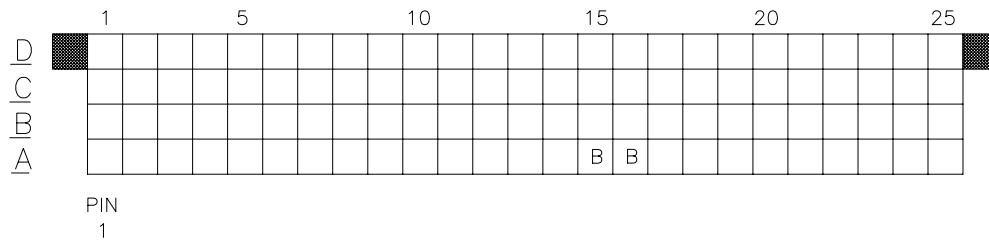
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1. ALL POSITIONS ARE LOADED WITH "A" EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

mat'l. code SEE NOTE 3 surface ISO 1302 ✓ tolerance ISO 406 ISO 1101 projection
Itr ecn no dr date tolerances unless otherwise specified
R angles linear $XXX \pm .005 / .13$ INCH/MM
0°±2° $XXXX \pm .0020 / .05$ scale 1:1
dr D.HORCHLER 6/29/05
engr D.HORCHLER 6/29/05
chr T.BREWBAKER 7/5/05
oppd D.HORCHLER 7/5/05

product family HPC
title 4 ROW VERTICAL HEADER
W/PRESS-FIT PINS, 0 G.P.
dwg no sheet 5 of 9 size 50009 A3
type Product Customer Drawing

PRODUCT NO.	ITEM KEY	SIGNAL DATA			5
		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	



C

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.

D

form: A3

mat'l. code SEE NOTE 3	surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection	product family HPC
ltr R	ecn no dr date	tolerances unless otherwise specified XX±.01/.3	INCH/MM	title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
		angles linear XXX±.005/.13	scale 1:1	
		0°±2° XXXX±.0020/.05		dwg no sheet 6 of 9 size 50009 A3
		dr D.HORCHLER 6/29/05		type Product Customer Drawing
		engr D.HORCHLER 6/29/05		
		chr T.BREWBAKER 7/5/05		
		oppd D.HORCHLER 7/5/05		
sheet index	revision sheet			

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SIGNAL DATA											
PRODUCT NO.	ITEM KEY	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				

PIN

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	B	B	B	B	
B	B	B	B	B	B	B	B	B	B	B	

1

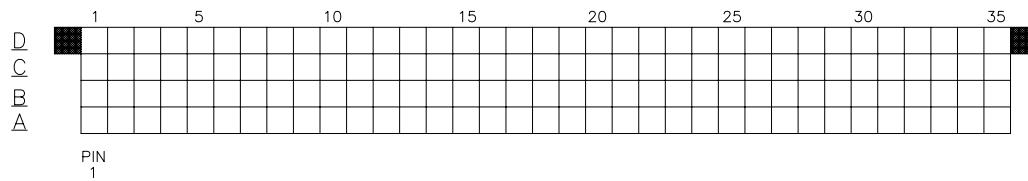
1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
 2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

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mat'l. code SEE NOTE 3	surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection	product family HPC
litr ecn no dr date	tolerances unless otherwise specified XX±.01/.3			title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P.
	angles linear XXX±.005/.13	INCH/MM		
	0°±2° XXXX±.0020/.05	scale 1:1		
	dr D.HORCHLER 6/29/05			dwg no sheet 7 of 9 size 50009 A3
	engr D.HORCHLER 6/29/05			
	chr T.BREWBAKER 7/5/05			
	oppd D.HORCHLER 7/5/05			
sheet index	revision sheet			

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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. 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
ltr	ecn	no	dr	date	tolerances unless otherwise specified		title
R					.XX±.01/.3	INCH/MM	4 ROW VERTICAL HEADER
					XXX±.005/.13	scale 1:1	W/PRESS-FIT PINS, 0 G.P.
					0°±2°		dwg no sheet 8 of 9 size
					XXXX±.0020/.05		50009 A3
					dr D.HORCHLER 6/29/05		type Product Customer Drawing
					engr D.HORCHLER 6/29/05		
					chr T.BREWBAKER 7/5/05		
					oppd D.HORCHLER 7/5/05		
sheet	revision						
index	sheet						

form: A3

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1		2 3										4		5		6		
PRODUCT NUMBER	ITEM KEY	SIGNAL DATA														50009-XX187		
		SIZE 4 x 50		TOTAL NO. OF POSITIONS - 200		NO. OF POSITIONS LOADED - 200		PRESS FIT STYLE										
		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									
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									
D		A A		A		A		A		A		A		A				
C		A A		C A		A A A A B		A		A		A		A				
B		A A		C		A A		A		A		A		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		C C C				
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