

Switch Language

English

Need Assistance?

- Contact Us Find a Distributor Order Samples Tech Library

Printer-friendly page

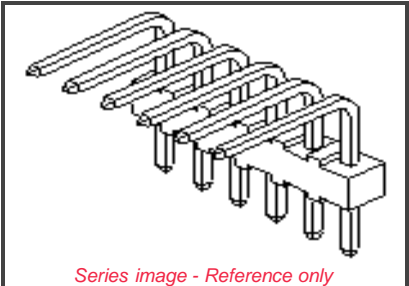
Email this page

Home PCB Headers Datasheet

Part Number: 0022052051

Status: Active

Description: 2.54mm (.100") Pitch KK® Wire-to-Board Header, Single Row, Right Angle, 5 Circuits, PA Polyamide Nylon, Tin (Sn) Plating



Documents:

Note - Please disable browser pop-up blockers for documents on www.molex.com

- Drawing (PDF) Product Specification PS-10-07 (PDF) Packaging Specification (PDF) 3D Model Related Catalog Page (PDF)

Order Products:

- Check Distributor Inventory Add to My Parts Request Samples

Part Detail: (show all)

General Physical Electrical Material Info

General

Table with 2 columns: Attribute and Value. Attributes include Product Family, Series, Application, and Product Name.

Physical

Table with 2 columns: Attribute and Value. Attributes include Breakaway, Circuits (Loaded), Circuits (maximum), Color - Resin, Durability (mating cycles) min, Flammability, Lock to Mating Part, Material - Metal, Material - Plating Mating, Material - Resin, Number of Rows, Orientation, PC Tail Length (in), PC Tail Length (mm), PCB Locator, PCB Retention, PCB Thickness Recommended (in), PCB Thickness Recommended (mm), Packaging Type, Pitch - Mating Interface (in), Pitch - Mating Interface (mm), Polarized to Mating Part, Polarized to PCB, Shrouded, Stackable, Surface Mount Compatible (SMC), and Temperature Range - Operating.

EU RoHS ELV and RoHS Compliant China RoHS



Need more information on product compliance?

Email productcompliance@molex.com

Please visit the Contact Us section for any non-product compliance questions.

Table with 2 columns: Attribute and Value. Attributes include Duration at Max. Process Temperature (seconds), Lead-free Process Capability, Max. Cycles at Max. Process Temperature, and Process Temperature max. C.

Search Parts in this Series

4094 Series

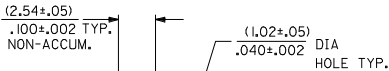
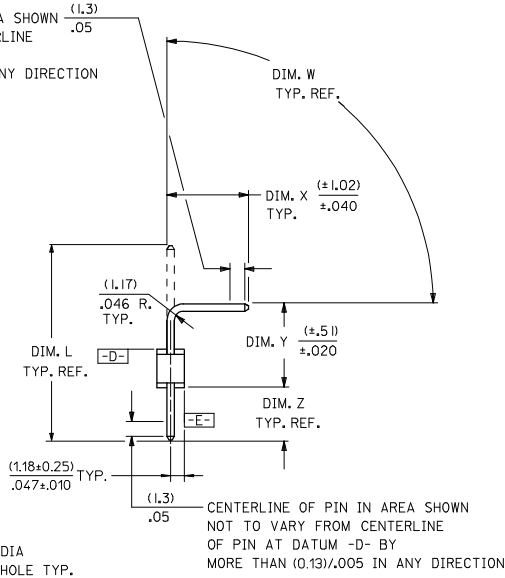
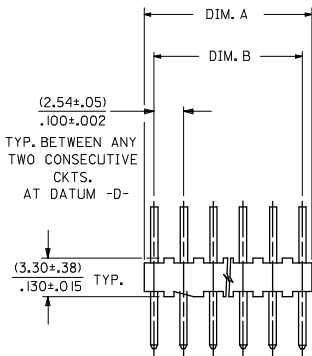
Mates With

2695, 6471, 7880, 4455, 7720

Termination Interface: Style	Through Hole
Electrical	
CSA	LR19980
Current - Maximum	4.000 Amp
UL	E29179
Voltage - Maximum	250V
Material Info	
Old Part Number	A-4094-05A102
Reference - Drawing Numbers	
Product Specification	PS-10-07
Sales Drawing	SDA-4094

13 12 11 10 9 8 7 6 5 4 3 2 1

CENTERLINE OF PIN IN AREA SHOWN
NOT TO VARY FROM CENTERLINE
OF PIN AT DATUM -E- BY
MORE THAN (0.20)/.008 IN ANY DIRECTION



PCB LAYOUT: COMPONENT SIDE
TYPICAL PCB THICKNESS: (1.57)/.062

NOTES:

- MATERIAL: NYLON, UL 94V-0, COLOR WHITE
- FINISH:
 - (102) OVERALL TIN: 0.00508/0.000200 MIN. OVER COPPER UNDERPLATE: 0.00254/0.000100 MIN.
 - (103) OVERALL TIN: 0.00508/0.000200 MIN. OVER COPPER UNDERPLATE: 0.00127/0.000050 MIN.
 - (501) OVERALL GOLD: 0.00051/0.000020 MIN. OVER NICKEL UNDERPLATE: 0.00076/0.000030 MIN.
 - (503) OVERALL GOLD: 0.00076/0.000030 MIN. OVER NICKEL UNDERPLATE: 0.00127/0.000050 MIN.
 - (508) OVERALL GOLD: 0.00076/0.000030 MIN. OVER NICKEL UNDERPLATE: 0.00076/0.000030 MIN.
 - (516) OVERALL GOLD: 0.00025/0.000010 MIN. OVER NICKEL UNDERPLATE: 0.00076/0.000030 MIN.
- PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
- PACKAGING INFORMATION: SEE LEGEND.
- PINS MUST CONFORM TO SOLDERABILITY SPECIFICATION SMES-152.
- PIN PUSHOUT FORCE: 2 LBS. MIN.
- PARTS ARE STACKABLE END TO END AND SIDE TO SIDE ON (2.54)/100 CENTERS.
- THE PRIMARY SHIPPING CARTON WILL BE LABELED, "COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC." CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
- PARTS CONFORM TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

A-4094-N	*	*	*
NO. OF CKTS.			
VERSION			
LETTER CHANGES WHEN PIN NO. OR PRESS DIM. CHANGES.			
PLATING CODE			
SEE NOTE 2			
SECONDARY OPERATIONS			
CODE	PACKAGE		
BLANK	BULK PER PK-4094-001		
A	PK-40873-0020		

CKTS. NO. OF	DIM. B	DIM. A
2	.100 ± .002 (2.54 ± .05)	.190 ± .008 (4.83 ± .20)
3	.200 ± .005 (5.08 ± .13)	.290 ± .008 (7.37 ± .20)
4	.300 ± .005 (7.62 ± .13)	.390 ± .008 (9.91 ± .20)
5	.400 ± .005 (10.16 ± .13)	.490 ± .008 (12.45 ± .20)
6	.500 ± .006 (12.70 ± .15)	.590 ± .009 (14.99 ± .23)
7	.600 ± .006 (15.24 ± .15)	.690 ± .009 (17.53 ± .23)
8	.700 ± .006 (17.78 ± .15)	.790 ± .009 (20.07 ± .23)
9	.800 ± .007 (20.32 ± .18)	.890 ± .010 (22.61 ± .25)
10	.900 ± .007 (22.86 ± .18)	.990 ± .010 (25.15 ± .25)
11	1.000 ± .007 (25.40 ± .18)	1.090 ± .010 (27.69 ± .25)
12	1.100 ± .008 (27.94 ± .20)	1.190 ± .011 (30.23 ± .28)
13	1.200 ± .008 (30.48 ± .20)	1.290 ± .011 (32.77 ± .28)
14	1.300 ± .008 (33.02 ± .20)	1.390 ± .011 (35.31 ± .28)
15	1.400 ± .008 (35.56 ± .20)	1.490 ± .011 (37.85 ± .28)
16	1.500 ± .008 (38.10 ± .20)	1.590 ± .011 (40.39 ± .28)
17	1.600 ± .009 (40.64 ± .23)	1.690 ± .012 (42.93 ± .30)
18	1.700 ± .009 (43.18 ± .23)	1.790 ± .012 (45.47 ± .30)
19	1.800 ± .009 (45.72 ± .23)	1.890 ± .012 (48.01 ± .30)
20	1.900 ± .009 (48.26 ± .23)	1.990 ± .012 (50.55 ± .30)
21	2.000 ± .010 (50.80 ± .25)	2.090 ± .013 (53.09 ± .33)
22	2.100 ± .010 (53.34 ± .25)	2.190 ± .013 (55.63 ± .33)
23	2.200 ± .010 (55.88 ± .25)	2.290 ± .013 (58.17 ± .33)
24	2.300 ± .010 (58.42 ± .25)	2.390 ± .013 (60.71 ± .33)
25	2.400 ± .011 (60.96 ± .28)	2.490 ± .014 (63.25 ± .36)
26	2.500 ± .011 (63.50 ± .28)	2.590 ± .014 (65.79 ± .36)
27	2.600 ± .011 (66.04 ± .28)	2.690 ± .014 (68.33 ± .36)
28	2.700 ± .011 (68.58 ± .28)	2.790 ± .014 (70.87 ± .36)

14	AD1
13	AD1
12	AD1
11	AD1
10	AD1
9	AD1
8	AD1
7	AD1
6	AD1
5	AD1
4	AD1
3	AD1
2	AD1
1	AD3
SHEET	REV.

ADD 1:18 DIMENSION EC NO: UCP2009-0323 DRAWING: GERRILL 2008/08/22 CHK: CHOKRIPPER 2008/08/26 APPR: ESMITH 2008/08/27 AD3	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED):		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM/IN	---	INCH		
				mm	---	INCH		
				mm	---	INCH		
		4 PLACES ± --- ± ---	KSS	DRAWN BY	DATE	TITLE		
		3 PLACES ± --- ± .005	NP	CHECKED BY	DATE	WAFER ASSY FLAT MINI KK (4030 WITH BENT PINS) 4094 SERIES DRAWING		
		2 PLACES ± 0.13 ± .01		APPROVED BY	DATE	MOLEX INCORPORATED		
		1 PLACE ± 0.25 ± ---		KJA	1984/09/10			
		ANGULAR ± 1/2°		MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART	SDA-4094	1 OF 14		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

12 11 10 9 8 7 6 5 4 3 2 1

		13	12	11	10	9	8	7	6	5	4	3	2	1						
J	ENG. NO.	PIN NO.	DIM. L	DIM. X	DIM. Z	DIM. Y	DIM. W	DIM. T							DIM. W	DIM. T	J			
	A-4094-NA I02	2766-3(I02)	(17.45) .687	(9.30) .366	(3.15) .124	(6.30) .248	90°								(14.22) .560	(4.47) .176		(5.92) .233	(5.11) .201	90°
I	A-4094-NA50 I	2766-3(I50 I)	(17.45) .687	(9.30) .366	(3.15) .124	(6.30) .248	90°								(20.85) .821	SEE SHT. 7			90°	
	A-4094-NAB I02	2766-40(I02)	(23.80) .937	(14.99) .590	(3.78) .149	(6.30) .248	90°								(22.7 I) .894	(13.92) .548	(3.48) .137	(6.60) .260	90°	
H	A-4094-NAC I02	2766-54(I02)	(17.86) .703	(9.68) .381	(4.32) .170	(5.13) .202	90°								(3.124) 1.230	(22.23) .875	(3.7 I) .146	(6.60 I) .260	90°	
	A-4094-NAJ I02	2766-8(I02)	(2.139) .842	(10.19) .401	(4.09) .161	(8.4 I) .331	90°								(15.88) .625	(7.65) .301	(3.23) .127	(6.30) .248	90°	
G	A-4094-NAL I02	2766-8(I02)	(2.139) .842	(12.47) .491	(3.9 I) .154	(6.30 I) .248	90°								SEE SHT. 8			90°		
	A-4094-NAM I02	2766-3(I02)	(17.45) .687	(4.93) .194	(7.29) .287	(6.53) .257	90°								(17.45) .687	(9.30) .366	(2.3 I) .091	(7.1 I) .280	90°	
F	A-4094-NAP I02	2766-3(I02)	(17.45) .687	(8.4 I) .331	(3.78) .149	(6.55) .258	90°								(15.88) .625	(6.63) .261	(3.02) .119	(9.73 I) .383	55°	
	A-4094-NB I02	2766-43(I02)	(13.46) .530	(4.85) .191	(3.6 I) .142	(6.30) .248	90°								(17.45) .687	(7.44) .293	(2.84) .112	(8.46 I) .333	90°	
E	A-4094-NBE I02	2766-37(I02)	(20.32) .800	(11.53) .454	(3.56) .140	(6.50) .256	90°								(20.32) .800	(12.24) .482	(3.07) .121	(6.30) .248	90°	
	A-4094-NBE50 I	2766-37(I50 I)	(20.32) .800	(11.53) .454	(3.56) .140	(6.50) .256	90°								(20.85) .821	(12.32) .485	(3.53) .139	(6.30) .248	90°	
D	A-4094-NBF I02	2766-4(I02)	(18.69) .736	(9.30) .366	(2.79) .110	(7.87) .310	90°								(20.32) .800	(9.30) .366	(3.6 I) .142	(8.7 I) .343	90°	
	A-4094-NBF50 I	2766-4(I50 I)	(18.69) .736	(9.30) .366	(2.79) .110	(7.87) .310	90°								(17.45) .687	(5.13) .202	(7.95) .313	(5.66) .223	90°	
C	A-4094-NBH I02	2766-37(I02)	(20.32) .800	(11.7 I) .461	(2.3 I) .091	(7.57) .298	90°								(14.22) .560	(5.23) .206	(3.96) .156	(6.30) .248	90°	
	A-4094-NBK I03	4166-1(I03)	(16.5 I) .650	(5.00) .197	(7.67) .302	(5.13) .202	90°								(27.00) 1.063	(9.30) .366	(3.15) .124	(15.82 I) .623	90°	
B	A-4094-NBJ I02	2766-4(I02)	(18.69) .736	(9.42) .371	(3.63) .143	(6.93) .273	90°								(30.48) 1.200	(9.30) .366	(3.07) .121	(19.38 I) .763	90°	
	A-4094-NBJ50 I	2766-4(I50 I)	(18.69) .736	(9.42) .371	(3.63) .143	(6.93) .273	90°								(23.80) .937	(12.70) .500	(3.15) .124	(9.22 I) .363	90°	
A	A-4094-NBL I02	2766-8(I02)	(2.139) .842	(3.8 I) .150	(3.05) .120	(17.60) .693	25°								(17.45) .687	(9.30) .366	(3.15) .124	(6.30) .248	90°	
	A-4094-NBM I02	2766-28(I02)	(15.88) .625	(5.79) .228	(4.06) .160	(6.30) .248	139°								(23.24) .915	(9.53) .375	(8.64) .340	(6.35 I) .250	90°	
A	A-4094-NBP I02	2766-3(I02)	(17.45) .687	(9.07) .357	(7.87) .310	(5.82) .229	105°								(14.99) .590	(4.06) .160	(8.03) .316	(4.09 I) .161	90°	
	A-4094-NBR50 I	2766-52(I50 I)	(14.6 I) .575	(9.30) .366	(1.63) .064	(4.90) .193	90°								(18.69) .736	(8.26) .325	(3.28) .129	(12.75 I) .502	45°	
A	A-4094-NBT I02	2766-39(I02)	(12.70) .500	(6.38) .251	(2.79) .110	(4.78) .188	90°								(18.69) .736	(8.26) .325	(3.28) .129	(12.75 I) .502	45°	
	A-4094-NCA I02	2766-57(I02)	(13.84) .545	(5.23) .206	(3.6 I) .142	(6.30) .248	90°								(22.7 I) .894	(9.98) .393	(3.00) .118	(11.00 I) .433	90°	
A	A-4094-NCC I02	2766-73(I02)	(22.7 I) .894	(10.74) .423	(3.25) .128	(13.6 I) .536	60°								(12.70) .500	(4.60) .181	(3.10) .122	(6.30 I) .248	90°	
	A-4094-NCE I02	2766-54(I02)	(17.86) .703	(9.14) .360	(3.9 I) .154	(6.10) .240	90°								(16.5 I) .650	(5.00) .197	(7.67) .302	(5.13 I) .202	90°	
A	A-4094-NCM I02	2766-1(I02)	(14.22) .560	(4.47) .176	(5.92) .233	(5.11) .201	90°								(16.5 I) .650	(5.00) .197	(7.67) .302	(5.13 I) .202	90°	

UPDATE TITLE BLOCK EC NO: UCP2005-2329 DRAWN BY: 2005/07/28 CHECKED BY: 2005/07/27 APPR: 2005/07/27 APPROVED BY: 2005/07/27 REV:	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± 0.13 ± .01 1 PLACE ± 0.25 ± --- ANGULAR ±1/2°	DIMENSION STYLE MM/IN	SCALE ---	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
DRAWN BY: KSS DATE: 1984/09/10 CHECKED BY: NP DATE: 1984/09/10 APPROVED BY: KJA DATE: 1984/09/10		TITLE: WAFER ASSY FLAT MINI KK (4030 WITH BENT PINS) 4094 SERIES DRAWING MOLEX INCORPORATED		MATERIAL NO. SEE CHART DOCUMENT NO. SDA-4094		SHEET NO. 2 OF 14
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

lb_frame_C_P_ME_T Rev. D 2004/04/02

13		12		11		10		9		8		7		6		5		4		3		2		1	
A-4094-NA I02				A-4094-NA50 I				A-4094-NAB I02				A-4094-NAC I02				A-4094-NAJ I02				A-4094-NAL I02					
PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.		
22-05-2021	A-4094-2A I02	22-12-2021	A-4094-2A50 I	22-05-2026	A-4094-2AB I02											22-05-3038	A-4094-2AJ I02	22-05-2027	A-4094-2AL I02						
22-05-2031	A-4094-3A I02	22-12-2031	A-4094-3A50 I	22-05-2036	A-4094-3AB I02																				
22-05-2041	A-4094-4A I02	22-12-2041	A-4094-4A50 I	22-05-2046	A-4094-4AB I02																				
22-05-2051	A-4094-5A I02	22-12-2051	A-4094-5A50 I	22-05-2056	A-4094-5AB I02																				
22-05-2061	A-4094-6A I02	22-12-2061	A-4094-6A50 I	22-05-2066	A-4094-6AB I02																				
22-05-2071	A-4094-7A I02	22-12-2071	A-4094-7A50 I	22-05-2076	A-4094-7AB I02																				
22-05-2081	A-4094-8A I02	22-12-2081	A-4094-8A50 I	22-05-2086	A-4094-8AB I02																				
22-05-2091	A-4094-9A I02	22-12-2091	A-4094-9A50 I	22-05-2096	A-4094-9AB I02																				
22-05-2101	A-4094-10A I02	22-12-2101	A-4094-10A50 I	22-05-2106	A-4094-10AB I02																				
22-05-2111	A-4094-11A I02	22-12-2111	A-4094-11A50 I	22-05-2116	A-4094-11AB I02																				
22-05-2121	A-4094-12A I02	22-12-2121	A-4094-12A50 I	22-05-2126	A-4094-12AB I02																				
22-05-2131	A-4094-13A I02	22-12-2131	A-4094-13A50 I	22-05-2136	A-4094-13AB I02																				
22-05-2141	A-4094-14A I02	22-12-2141	A-4094-14A50 I	22-05-2146	A-4094-14AB I02																				
22-05-2151	A-4094-15A I02	22-12-2151	A-4094-15A50 I	22-05-2156	A-4094-15AB I02																				
22-05-2161	A-4094-16A I02	22-12-2161	A-4094-16A50 I	22-05-2166	A-4094-16AB I02																				
22-05-2171	A-4094-17A I02	22-12-2171	A-4094-17A50 I	22-05-2176	A-4094-17AB I02																				
22-05-2181	A-4094-18A I02	22-12-2181	A-4094-18A50 I	22-05-2186	A-4094-18AB I02																				
22-05-2191	A-4094-19A I02	22-12-2191	A-4094-19A50 I	22-05-2196	A-4094-19AB I02																				
22-05-2201	A-4094-20A I02	22-12-2201	A-4094-20A50 I	22-05-2206	A-4094-20AB I02																				
22-05-2211	A-4094-21A I02	22-12-2211	A-4094-21A50 I	22-05-2216	A-4094-21AB I02																				
22-05-2221	A-4094-22A I02	22-12-2221	A-4094-22A50 I	22-05-2226	A-4094-22AB I02																				
22-05-2231	A-4094-23A I02	22-12-2231	A-4094-23A50 I	22-05-2236	A-4094-23AB I02																				
22-05-2241	A-4094-24A I02	22-12-2241	A-4094-24A50 I	22-05-2246	A-4094-24AB I02																				
22-05-2251	A-4094-25A I02	22-12-2251	A-4094-25A50 I	22-05-2256	A-4094-25AB I02																				
22-05-2261	A-4094-26A I02	22-12-2261	A-4094-26A50 I	22-05-2266	A-4094-26AB I02																				
22-05-2271	A-4094-27A I02	22-12-2271	A-4094-27A50 I	22-05-2276	A-4094-27AB I02																				
22-05-2281	A-4094-28A I02	22-12-2281	A-4094-28A50 I	22-05-2286	A-4094-28AB I02																				

UPDATE TITLE BLOCK EC NO. UCP2005-2329 DRAWN BY 2005/07/26 CHKD BY CHKCS/SH/01 APPR BY FSW/TH 2005/07/27	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr><td>4 PLACES</td><td>±</td><td>---</td><td>±</td><td>---</td></tr> <tr><td>3 PLACES</td><td>±</td><td>---</td><td>±</td><td>---</td></tr> <tr><td>2 PLACES</td><td>±</td><td>---</td><td>±</td><td>---</td></tr> <tr><td>1 PLACE</td><td>±</td><td>---</td><td>±</td><td>---</td></tr> </table>	4 PLACES	±	---	±	---	3 PLACES	±	---	±	---	2 PLACES	±	---	±	---	1 PLACE	±	---	±	---	DIMENSION STYLE MM/IN	SCALE ---	DESIGN UNITS INCH	<input type="checkbox"/> THIRD ANGLE PROJECTION
	4 PLACES	±	---	±	---																					
	3 PLACES	±	---	±	---																					
	2 PLACES	±	---	±	---																					
1 PLACE	±	---	±	---																						
DRAWN BY KSS DATE 1984/09/10 CHECKED BY NP DATE 1984/09/10 APPROVED BY KJA DATE 1984/09/10	TITLE WAFER ASSY FLAT MINI KK (4030 WITH BENT PINS) 4094 SERIES DRAWING	MATERIAL NO. SEE CHART	DOCUMENT NO. SDA-4094	SHEET NO. 4 OF 14																						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																										
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																										

tb_frame_C_P_ME_T
Rev. D 2004/04/02