

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0916277003](#)  
**Status:** **Active**  
**Overview:** [rast 5 connector system](#)  
**Description:** 5.00mm (.197") Pitch Appli-Mate RAST 5 IDT Housing, Direct/Indirect, Female, 9 Circuits, Glow Wire Compatible, Removed Coding Keys None, End Wall Open, Polarizing Rib 2 & 3

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-91627-001 \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

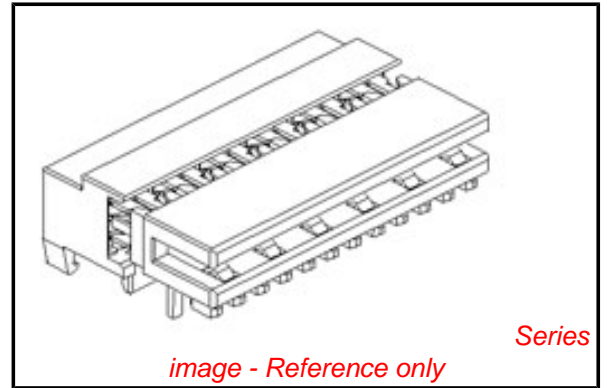
Product Family IDT and Solder Connectors  
 Series [91627](#)  
 Crimp Quality Equipment Yes  
 Overview [rast 5 connector system](#)  
 Product Name RAST 5  
 Use With RAST standard interface

**Physical**

Circuits (Loaded) 9  
 Circuits (maximum) 9  
 Color - Resin Natural (White)  
 Durability (mating cycles max) 10  
 Flammability 94V-2  
 Gender Female  
 Glow-Wire Compliant Yes  
 Lock to Mating Part Yes  
 Material - Metal High Performance Alloy (HPA)  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Material - Resin Nylon  
 Number of Rows 1  
 Packaging Type Tray  
 Panel Mount No  
 Pitch - Mating Interface (in) 0.197 In  
 Pitch - Mating Interface (mm) 5.00 mm  
 Pitch - Term. Interface (in) 0.197 In  
 Pitch - Term. Interface (mm) 5.00 mm  
 Plating min: Mating (µin) 32  
 Plating min: Mating (µm) 0.80  
 Plating min: Termination (µin) 32  
 Plating min: Termination (µm) 0.80  
 Polarized to Mating Part Polarizing Ribs  
 Stackable No  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style IDT or Pierce  
 Wire Size AWG 22, 24

**Electrical**

Current - Maximum per Contact 6A  
 Voltage - Maximum 250V AC



**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC**  
 Not Reviewed  
**Halogen-Free Status**  
**Not Reviewed**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[91627Series](#)

**Mates With**

[90860 Appli-Mate® Vertical Header](#). [90861 Appli-Mate® Right Angle Header](#)

**Application Tooling | FAQ**

*Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.*

**Global**

Description	Product #
Appli-Mate Rast 2.5 Power Manual Terminator	<a href="#">0622030000</a>
RAST 2.5 Semi-Automatic Terminator Machine For Appli-Mate™ Connectors	<a href="#">0623006000</a>

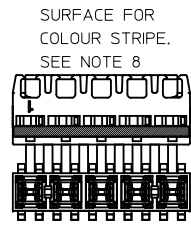
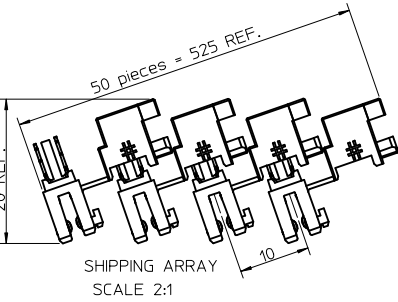
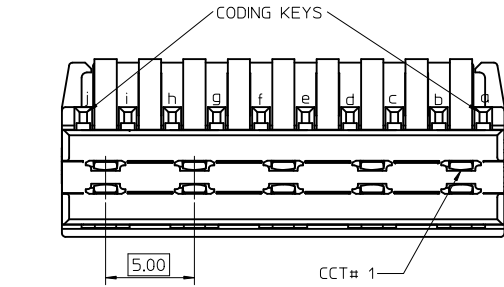
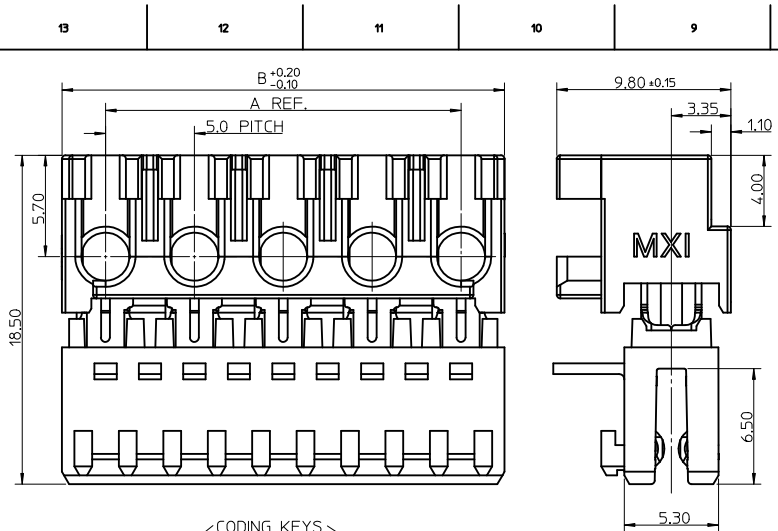
## Material Info

### Reference - Drawing Numbers

Application Specification	AS-91627-001
Packaging Specification	PK-91627-001
Product Specification	PS-91627-001
Sales Drawing	SD-91627-001

This document was generated on 05/27/2010

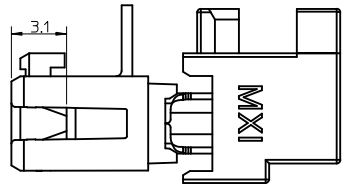
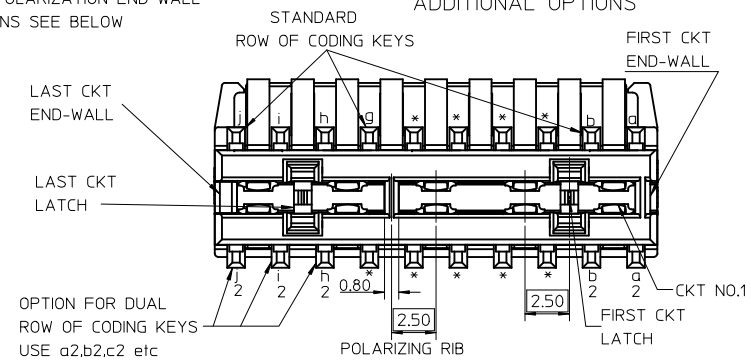
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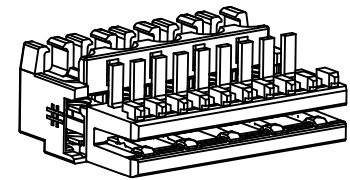
CKT	DIM A	DIM B	DIM C	DIM D
2	5	9.9	7.3	-
3	10	14.9	12.3	5
4	15	19.9	17.3	10
5	20	24.9	22.3	15
6	25	29.9	27.3	20
7	30	34.9	32.3	25
8	35	39.9	37.3	30
9	40	44.9	42.3	35
10	45	49.9	47.3	40
11	50	54.9	52.3	45
12	55	59.9	57.3	50

- NOTES:  
 1. MATERIAL: HOUSING: PA 6 TERMINAL: PHOSPHOR BRONZE OR COPPER ALLOY PLATING: TIN(6A) OR SILVER(10A)  
 2. PRODUCT SPECIFICATION: PS-91627-001  
 3. SEE SUBSEQUENT SHEETS FOR PART NUMBERING INFORMATION  
 4. LATCHES RECOMMENDED WHERE LOCKING VIA HEADER. GUIDEFAME OR COMPONENT ENCLOSURE IS NOT POSSIBLE.  
 5. APPLICATION SPECIFICATION: AS-91627-001  
 6. 2 & 3CCT LATCH VERSIONS WILL HAVE 1 SOLID LATCH WERE APPLICABLE.  
 7. PACKAGING SPECIFICATION: PK-91627-001  
 8. COLOUR STRIPE IS OPTIONAL. AVAILABLE IN THE FOLLOWING COLOURS, BLUE, RED, GREEN & BLACK. ASTERISK IN CHART INDICATES FULL SURFACE COVERAGE.

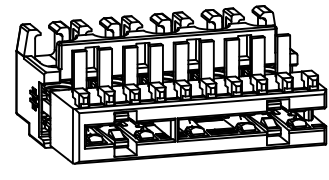
FOR POLARIZATION END WALL OPTIONS SEE BELOW



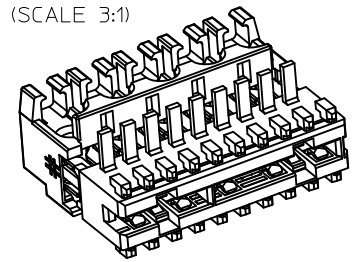
RECOMMENDED PCB LAYOUT FOR OPTIONS SHOWN (SCALE 3:1)



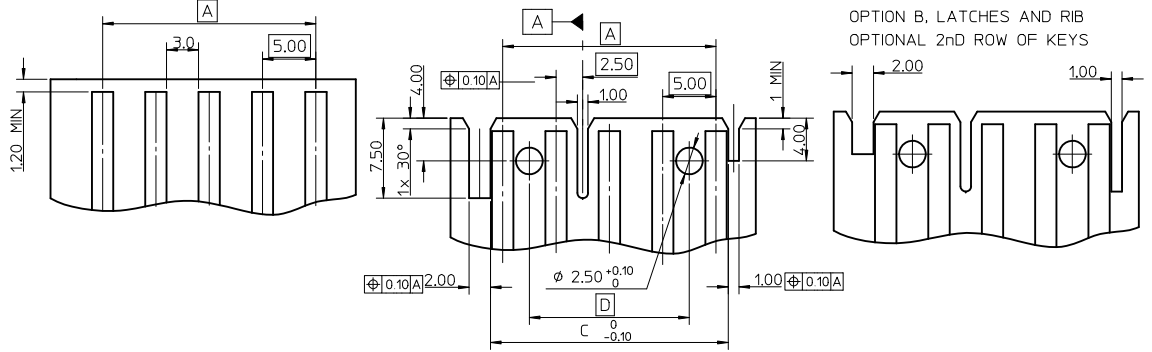
OPEN END WALL, NO POLARIZING RIB STANDARD ROW OF KEYS



CLOSED END-WALL, POLARIZED OPTION A, LATCHES AND RIB OPTIONAL 2ND ROW OF KEYS



CLOSED END-WALL, POLARIZED OPTION B, LATCHES AND RIB OPTIONAL 2ND ROW OF KEYS



Other combinations possible:  
 There may be one or two latches which can be positioned between 1st and 2nd ckt and/or between 2nd and last ckt.  
 The polarizing rib can be between any ckt.  
 There may be one end wall only which must be located at the larger ckt end as polarized option A (wider and taller end wall)

NEW PART NUMBERS	EC NO.	DATE	DESCRIPTION
E2010-0325	2010/03/12	2010/03/12	DRW:NBAGUIRE
	25/07/2003	25/07/2003	CHKD:BMAGUIRE
	2010/05/28	2010/05/28	APPR:BMAGUIRE

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)
▽=0	4 PLACES ± --- ± ---
▽=0	3 PLACES ± --- ± ---
	2 PLACES ± 0.10 ± ---
	1 PLACE ± 0.2 ± ---
	ANGULAR ± 2°
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
LK IERNAN	07/05/2003
CHECKED BY	DATE
BMAGUIRE	25/07/2003
APPROVED BY	DATE
BMAGUIRE	2010/04/02
MATERIAL NO.	DOCUMENT NO.
SEE CHARTS	SD-91627-001

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
5:1	METRIC	THIRD ANGLE PROJECTION
<b>RAST PWR IDT CONN</b>		
<b>5MM PITCH</b>		
<b>MOLEX MOLEX INCORPORATED</b>		
SHEET NO. 1 OF 3		

2 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOR STRIPE
91627-0001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-0501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE
91627-0502	NONE	NONE		CCT 1&2	NONE	A	NONE
91627-0002	NONE	NONE		NONE	NONE	OPEN	YELLOW
91627-0003	NONE	d		NONE	NONE	OPEN	YELLOW
91627-0004	NONE	NONE		NONE	NONE	OPEN	RED
91627-0005	NONE	b		NONE	NONE	OPEN	RED
91627-0006	NONE	d		NONE	NONE	OPEN	NONE
91627-0008	NONE	c		NONE	NONE	OPEN	NONE
91627-0009	NONE	a b		NONE	NONE	OPEN	NONE
91627-0010	NONE	a c		NONE	NONE	OPEN	NONE
91627-0503	NONE	NONE		CCT 1&2	NONE	B	NONE
91627-0011	NONE	b d		NONE	NONE	OPEN	NONE
91627-0012	NONE	a b c		NONE	NONE	OPEN	NONE
91627-0013	NONE	a c d		NONE	NONE	OPEN	NONE
91627-0014	NONE	b c d		NONE	NONE	OPEN	NONE
91627-0015	NONE	b		NONE	NONE	OPEN	NONE
91627-0504	NONE	a b		CCT 1&2	NONE	A	NONE
91627-0505	NONE	a c		CCT 1&2	NONE	A	NONE
91627-0506	NONE	c d		CCT 1&2	NONE	A	NONE
91627-0507	NONE	NONE		CCT 1&2	NONE	LAST	NONE
91627-0016	NONE	b c		NONE	NONE	OPEN	NONE
91627-0508	NONE	b d		CCT 1&2	NONE	A	NONE
91627-0024	NONE	a		NONE	NONE	OPEN	NONE

3 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOR STRIPE
91627-1001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-1002	NONE	a b c		NONE	CCT 1&2	OPEN	RED
91627-1004	NONE	NONE		NONE	CCT 1&2	OPEN	RED
91627-1501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE
91627-1502	NONE	NONE		CCT 1&2 CCT 2&3	NONE	A	NONE
91627-1503	NONE	c d		CCT 1&2	NONE	A	NONE
91627-1005	NONE	a b c d e b2,c2,d2,e2		NONE	NONE	OPEN	NONE
91627-1006	NONE	b c e		NONE	NONE	OPEN	NONE
91627-1007	NONE	d e f		NONE	NONE	OPEN	NONE
91627-1504	NONE	a b c		CCT 1&2	CCT 2&3	OPEN	RED
91627-1506	NONE	NONE		CCT 2&3	CCT 1&2	A	NONE
91627-1507	NONE	NONE		CCT 1&2	CCT 2&3	A	NONE
91627-1508	NONE	NONE		CCT 2&3	CCT 1&2	OPEN	NONE
91627-1008	NONE	c d f		NONE	NONE	OPEN	NONE
91627-1009	NONE	a d e		NONE	NONE	OPEN	NONE
91627-1010	NONE	b c d		NONE	NONE	OPEN	NONE
91627-1011	NONE	a d e f		NONE	NONE	OPEN	NONE
91627-1012	NONE	a b d		NONE	NONE	OPEN	NONE
91627-1013	CCT 2	d e f		NONE	CCT 1&2	OPEN	NONE
91627-1014	NONE	b c d e		NONE	NONE	OPEN	NONE
91627-1015	NONE	a c e		NONE	NONE	OPEN	NONE
91627-1016	NONE	NONE		NONE	NONE	OPEN	BLUE*
91627-1017	NONE	d e f		NONE	CCT 1&2	OPEN	NONE

4 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOR STRIPE
91627-2001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-2002	NONE	d e f g h		NONE	CCT 2&3	OPEN	RED
91627-2003	NONE	NONE		NONE	CCT 2&3	OPEN	RED
91627-2501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE
91627-2004	NONE	b d e f g h		NONE	CCT 2&3	OPEN	RED
91627-2005	NONE	d e f g		NONE	NONE	OPEN	NONE
91627-2006	NONE	b c d f		NONE	NONE	OPEN	NONE
91627-2007	NONE	a b e f h		NONE	NONE	OPEN	NONE
91627-2008	NONE	ALL		NONE	NONE	OPEN	NONE
91627-2009	NONE	a b f g		NONE	NONE	OPEN	NONE
91627-2503	NONE	NONE		CCT 1&2 CCT 3&4	CCT 2&3	A	NONE
91627-2010	NONE	c d e h		NONE	NONE	OPEN	NONE
91627-2011	NONE	d e f g h		NONE	NONE	OPEN	NONE

5 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOR STRIPE
91627-3001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-3501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE
91627-3002	NONE	c d f g i		NONE	NONE	OPEN	NONE
91627-3003	NONE	a b c d e f g h i		NONE	NONE	OPEN	NONE
91627-3004	NONE	ALL		NONE	NONE	OPEN	NONE
91627-3502	NONE	NONE		CCT 1&2 CCT 4&5	CCT 3&4	A	NONE
91627-3503	NONE	NONE		CCT 1&2	CCT 4&5	A	NONE
91627-3504	NONE	NONE		CCT 1&2 CCT 4&5	CCT 2&3	OPEN	NONE
91627-3005	NONE	NONE		NONE	CCT 1&2	OPEN	NONE
91627-3006	NONE	b c d g h j		NONE	NONE	OPEN	NONE

NOTES:  
 1. FIRST CKT SIDE IS THE SIDE CLOSEST TO CKT 1  
 2. LAST CKT SIDE IS THE SIDE CLOSEST TO THE HIGHEST CKT SIZE

● - DENOTES TERMINAL POSITION LOADED  
 + - DENOTES TERMINAL POSITION VOIDED  
 I - DENOTES POSITION OF POLARIZING RIB  
 II - DENOTES POSITION OF LOCKING LATCH

3. - - - COLOUR COVERS WHOLE SURFACE

SEE SHEET 1 EC NO. E2010-0325 DRAWING NO. 25/07/2003 APPROVAL DATE 20/05/2008	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± 0.1 ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± 0.2 ± --- ANGULAR ± 2 °	MM ONLY DRAWN BY DATE KIRMAN 07/05/2003 CHECKED BY DATE BMAGUIRE 25/07/2003 APPROVED BY DATE BMAGUIRE 20/10/04/02	1:1	METRIC		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						TITLE <b>RAST PWR IDT CONN SMM INCIPOR</b>
	SEE CHARTS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						MATERIAL NO. SD-91627-001 DOCUMENT NO. 2 OF 3

6 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOUR STRIPE
91627-4001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-4501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE
91627-4002	NONE	abc, d, g, h, j, k, l n2, 2, 2, 2, 2, 2, 2, 2 g, 2, h, 2, i, 2, k, 2		NONE	NONE	OPEN	NONE
91627-4502	NONE	NONE		CCT 1&2 CCT 5&6	CCT 3&4	OPEN	NONE
91627-4003	NONE	ALL		NONE	NONE	OPEN	NONE
91627-4004	NONE	a, i		NONE	NONE	OPEN	NONE
91627-4503	NONE	NONE		CCT 1&2	CCT 5&6	A	NONE
91627-4005	NONE	NONE		NONE	CCT 2&3	OPEN	NONE
91627-4006	NONE	c, d, e, h, j		NONE	NONE	OPEN	NONE
91627-4007	NONE	a, b, e, f g, h, i, j		NONE	NONE	OPEN	NONE
91627-4504	NONE	NONE		1&2 5&6	CCT 2&3	OPEN	NONE

7 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOUR STRIPE
91627-5001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-5002	NONE	b, c, d, e, f, h, i, j, k, l, m		NONE	NONE	OPEN	NONE
91627-5003	NONE	b, c, e, f, g, i, j, k, m, n		NONE	NONE	OPEN	ORANGE
91627-5501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE
91627-5502	NONE	NONE		CCT 1&2 CCT 6&7	NONE	A	NONE
91627-5004	NONE	c, d, g, h, i, j, k		NONE	NONE	OPEN	NONE
91627-5503	NONE	NONE		CCT 1&2 CCT 6&7	CCT 3&4	OPEN	NONE
91627-5504	NONE	NONE		CCT 1&2 CCT 6&7	NONE	OPEN	NONE
91627-5005	NONE	a, b, c, d, e, g, h, i, j, k, l, m		NONE	NONE	OPEN	NONE
91627-5006	NONE	NONE		NONE	CCT 2&3	OPEN	NONE
91627-5505	NONE	NONE		CCT 1&2 CCT 6&7	NONE	OPEN	NONE

8 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOUR STRIPE
91627-6001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-6501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE
91627-6502	NONE	NONE		CCT 1&2 CCT 7&8	CCT 3&4	OPEN	NONE
91627-6002	NONE	NONE		NONE	CCT 2&3	OPEN	NONE

9 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOUR STRIPE
91627-7001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-7501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE
91627-7502	NONE	NONE		CCT 1&2 CCT 8&9	NONE	A	NONE
91627-7503	NONE	All		CCT 1&2 CCT 8&9	NONE	A	NONE
91627-7002	NONE	All		NONE	NONE	OPEN	NONE
91627-7504	NONE	NONE		CCT 1&2	CCT 3&4	OPEN	NONE
91627-7003	NONE	NONE		NONE	CCT 2&3	OPEN	NONE

10 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOUR STRIPE
91627-8001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-8501	NONE	NONE		CCT 1&2	NONE	OPEN	NONE

11 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOUR STRIPE
91627-9001	NONE	NONE		NONE	NONE	OPEN	NONE
91627-9251	NONE	NONE		CCT 1&2	NONE	OPEN	NONE

12 CIRCUIT							
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOUR STRIPE
91627-9501	NONE	NONE		NONE	NONE	OPEN	NONE
91627-9751	NONE	NONE		CCT 1&2	NONE	OPEN	NONE

NOTES:  
 1. FIRST OKT SIDE IS THE SIDE CLOSEST TO OKT 1  
 2. LAST OKT SIDE IS THE SIDE CLOSEST TO THE HIGHEST OKT SIDE

- DENOTES TERMINAL POSITION LOADED
- + DENOTES TERMINAL POSITION VOIDED
- DENOTES POSITION OF POLARIZING RIB
- ⊥ DENOTES POSITION OF LOCKING LATCH

SEE SHEET 1 EC NO. E2010-0325 EC NO. E2010-0325 CHK'D BY: BMAGUIRE APPR: BMAGUIRE 20/05/28	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>1:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
	▽=0 ▽=0	4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.10 ±---	1 PLACE ±0.2 ±---	APPROVED BY BMAGUIRE	DATE 20/04/07	TITLE <b>RAST PWR IDT CONN SMM PITCH</b>
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHARTS	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	3 OF 3