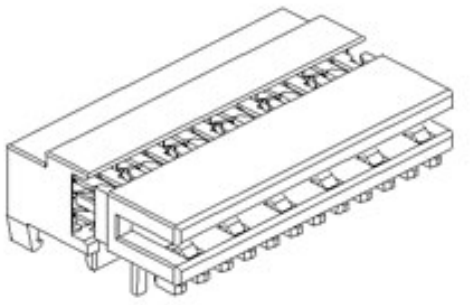
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0916274501
Status: Active
Overview: rast_5_connector_system
Description: 5.00mm (.197") Pitch Appli-Mate RAST 5 IDT Housing, Direct/Indirect, Female, 6 Circuits, Glow Wire Compatible, Removed Coding Keys None, End Wall Open



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-91627-001 (PDF)
RoHS Certificate of Compliance (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)	6
Circuits (maximum)	6
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	Yes
Stackable	No
Temperature Range - Operating	-40°C to +120°C
Termination Interface: Style	IDT or Pierce
Wire Size AWG	22, 24

Electrical

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

Material Info

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
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

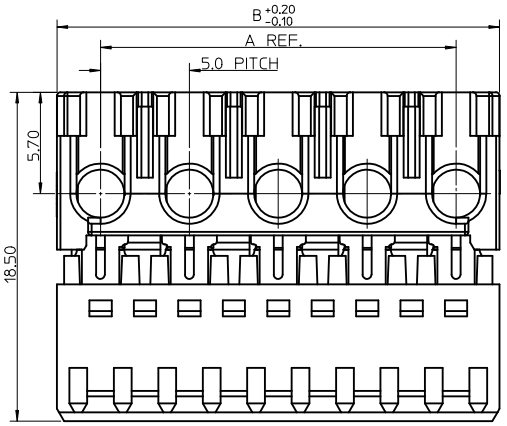
Description	Product #
Appli-Mate Rast 2.5 Power Manual Terminator	0622030000
RAST 2.5 Semi-Automatic Terminator Machine For Appli-Mate™ Connectors	0623006000

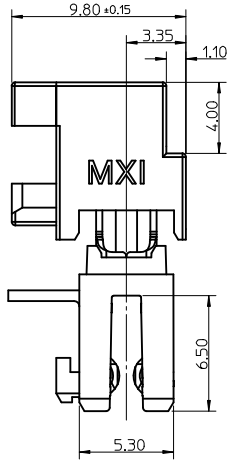
Reference - Drawing Numbers

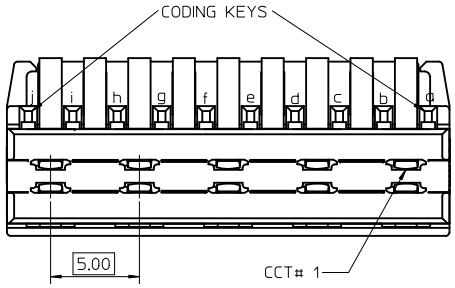
Application Specification	AS-91627-001
Packaging Specification	PK-91627-001
Product Specification	PS-91627-001
Sales Drawing	SD-91627-001

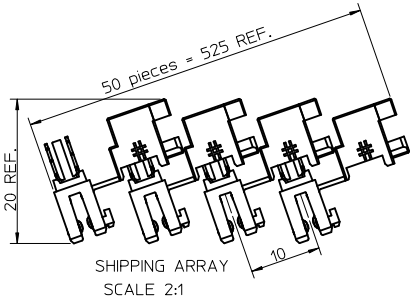
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

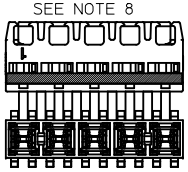








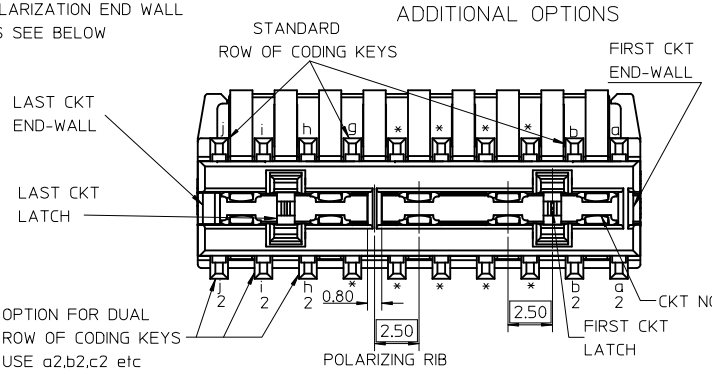
SHIPPING ARRAY
SCALE 2:1

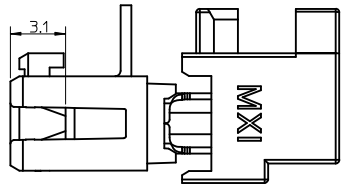


SURFACE FOR
COLOUR STRIPE.
SEE NOTE 8

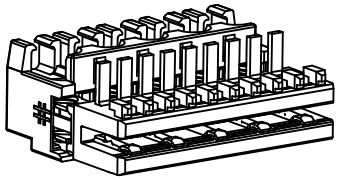
FOR POLARIZATION END WALL
OPTIONS SEE BELOW

ADDITIONAL OPTIONS

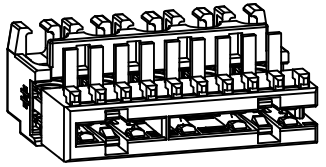




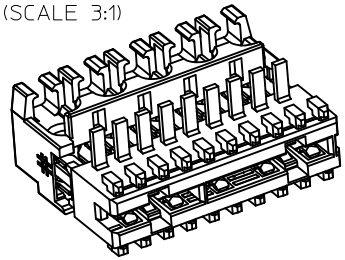
RECOMMENDED PCB LAYOUT FOR OPTIONS SHOWN (SCALE 3:1)



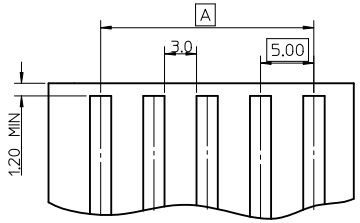
OPEN END WALL, NO POLARIZING RIB
STANDARD ROW OF KEYS

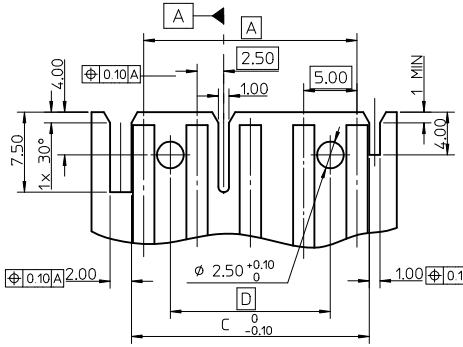


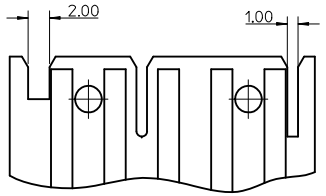
CLOSED END-WALL,POLARIZED
OPTION A, LATCHES AND RIB
OPTIONAL 2nD ROW OF KEYS



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)

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, GUIDEFRAME 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.
   ASTERIX IN CHART INDICATES FULL SURFACE COVERAGE.

NEW PART NUMBERS
EC NO: E2010-0325
DRWN:BMAGUIRE 2010/03/12
CHKD:BMAGUIRE 25/07/2003
APPR:BMAGUIRE 2010/05/28
DESCRIPTION
REV V

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
ANGULAR ± 2 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	LKIERNAN	DATE 07/05/2003
CHECKED BY	BMAGUIRE	DATE 25/07/2003
APPROVED BY	BMAGUIRE	DATE 2010/04/02

TITLE: RAST PWR IDT CONN 5MM PITCH

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHARTS
DOCUMENT NO.: SD-91627-001
SHEET NO.: 1 OF 3
SIZE: A2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

2 CIRCUIT

MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED CODING KEYS	CONFIGURATION	LATCH BETWEEN	POLARIZING RIB BETWEEN	END WALLS	COLOUR 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	COLOUR 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	COLOUR 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	COLOUR 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 POLARISING RIB
⊓ - DENOTES POSITION OF LOCKING LATCH

3. * = COLOUR COVERS WHOLE SURFACE

SEE SHEET 1
EC NO: E2010-0325
DRWN:BMAGUIRE 2010/03/12
CHKD:BMAGUIRE 25/07/2003
APPR:BMAGUIRE 2010/05/28
DESCRIPTION
REV: V

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
ANGULAR	± 2 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	LKIERNAN	07/05/2003
CHECKED BY	BMAGUIRE	25/07/2003
APPROVED BY	BMAGUIRE	2010/04/02

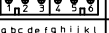
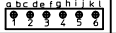
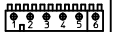
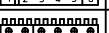
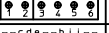
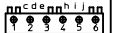
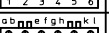
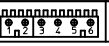
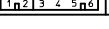
TITLE: RAST PWR IDT CONN 5MM PITCH

MOLEX INCORPORATED

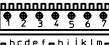
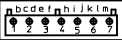
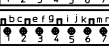
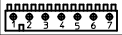
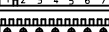
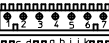
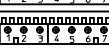
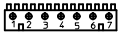
MATERIAL NO.: SEE CHARTS
DOCUMENT NO.: SD-91627-001
SHEET NO.: 2 OF 3
SIZE: A0

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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	a,b,c,d,g,h,i,j k,l b2,c2,d2,e2,f2 g2,h2,i2,j2,k2		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 l		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 i 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

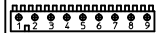
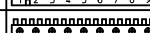
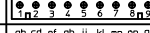
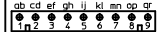
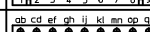
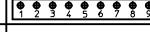
7 CIRCUIT

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

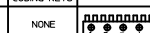
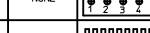
9 CIRCUIT

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

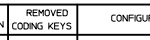
10 CIRCUIT

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 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
▮ - DENOTES POSITION OF POLARISING RIB
⊓ - DENOTES POSITION OF LOCKING LATCH

SEE SHEET 1
EC NO: E2010-0325
DRWN:BMAGUIRE 2010/03/12
CHKD:BMAGUIRE 25/07/2003
APPR:BMAGUIRE 2010/05/28
DESCRIPTION
REV
V

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
ANGULAR	± 2 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: LKIERNAN DATE: 07/05/2003
CHECKED BY: BMAGUIRE DATE: 25/07/2003
APPROVED BY: BMAGUIRE DATE: 2010/04/02
MATERIAL NO.: SEE CHARTS

TITLE: RAST PWR IDT CONN 5MM PITCH

MOLEX INCORPORATED

DOCUMENT NO.: SD-91627-001
SHEET NO.: 3 OF 3
SIZE: A0

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