

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0917801001](#)
Status: **Active**
Overview: [rast_25_connector_system](#)
Description: 2.50mm (.098") Pitch Appli-Mate RAST 2.5 IDT Housing, With Side Latches, Female, 5 Circuits, Position Keys A & F, Polarising Rib Between 2 & 3

Documents:
[3D Model](#) [Product Specification PS-99020-0040 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

Product Family IDT and Solder Connectors
Series [91780](#)
Crimp Quality Equipment Yes
Overview [rast_25_connector_system](#)
Product Name RAST 2.5
Use With RAST standard interface

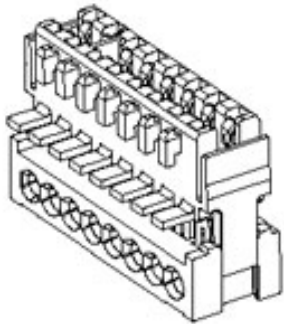
Physical

Circuits (Loaded) 5
Circuits (maximum) 5
Color - Resin Natural (White)
Durability (mating cycles max) 10
Flammability 94V-0
Gender Female
Glow-Wire Compliant No
Lock to Mating Part Yes
Material - Metal Phosphor Bronze
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) 0.098 In
Pitch - Mating Interface (mm) 2.50 mm
Pitch - Term. Interface (in) 0.098 In
Pitch - Term. Interface (mm) 2.50 mm
Plating min: Mating (µin) 40
Plating min: Mating (µm) 1.00
Plating min: Termination (µin) 40
Plating min: Termination (µm) 1.00
Polarized to Mating Part Yes
Stackable No
Temperature Range - Operating -20C TO +120C
Termination Interface: Style IDT or Pierce
Wire Size AWG 22, 24

Electrical

Current - Maximum per Contact 2A, 4A
Voltage - Maximum 32V AC

Material Info



Series

image - Reference only

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

[91780Series](#)

Mates With

[90860](#) Applimate® Vertical Header. [90861](#)
Applimate® 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

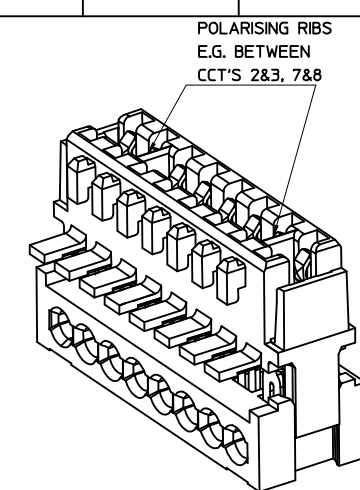
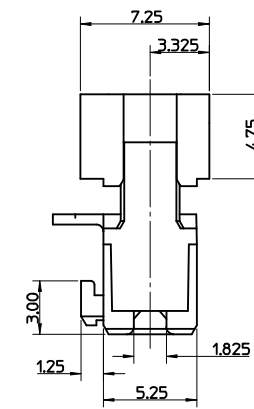
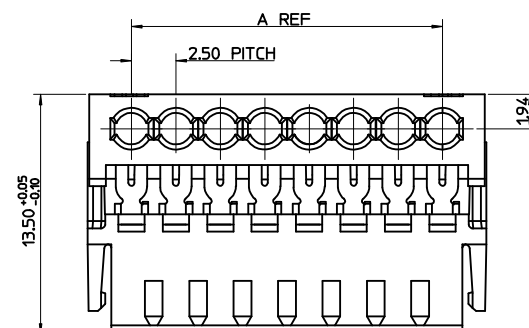
Description	Product #
RAST 2.5 Semi- Automatic Terminator Machine For Appli-Mate™ Connectors	0623006200

Reference - Drawing Numbers

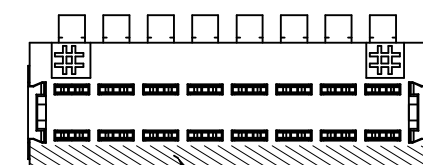
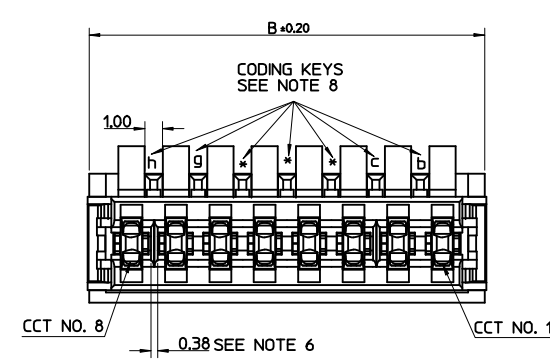
Application Specification	AS-99033-0008
Product Specification	PS-99020-0040
Sales Drawing	SD-91780-001

This document was generated on 05/28/2010

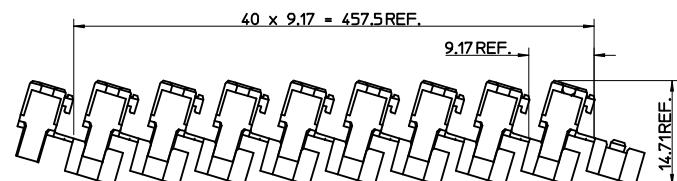
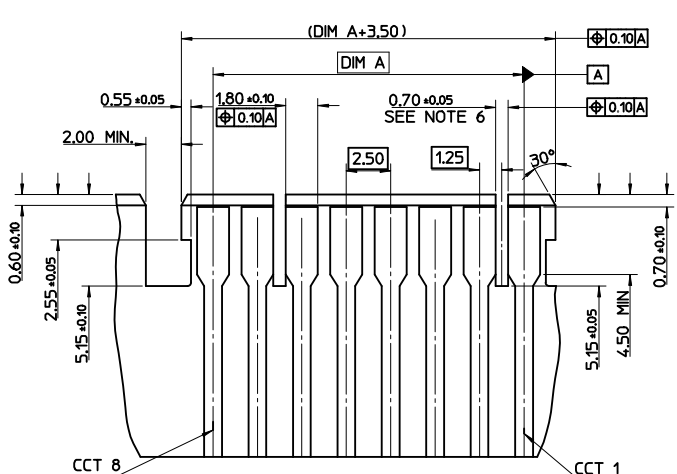
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



CCT	DIM A	DIM B
3	5.0	9.875
4	7.5	12.375
5	10.0	14.875
6	12.5	17.375
7	15.0	19.875
8	17.5	22.375
9	20.0	24.875
10	22.5	27.375
11	25.0	29.875
12	27.5	32.375
13	30.0	34.875
14	32.5	37.375
15	35.0	39.875
16	37.5	42.375
17	40.0	44.875
18	42.5	47.375
19	45.0	49.875
20	47.5	52.375



- NOTES:
1. MATERIAL: HOUSING - NYLON PA66 UL94-V0 COLOUR: NATURAL
TERMINAL - COPPER ALLOY
 2. PLATING: TIN
 3. PRODUCT CONFORMS TO PRODUCT SPECIFICATION PS-99020-0040
 4. APPLICATION SPECIFICATION AS-99033-0008
 5. SEE SUBSEQUENT SHEETS FOR PART NUMBERS
 6. POLARISING RIBS ARE RECOMMENDED WITH THIS PRODUCT.
SEE CONFIGURATIONS ON FOLLOWING SHEETS FOR OPTIONAL
POLARISING RIB POSITION(S) FOR EACH CCT SIZE.
RECOMMENDED: 3CCT TO 6 CCT HAVE ONE POLARISING RIB
7CCT TO 20 CCT HAS TWO POLARISING RIBS
 7. COLOR STRIPE IS OPTIONAL. AVAILABLE IN THE FOLLOWING
COLORS: BLACK, RED, BLUE, GREEN
 8. NO CODING KEY 'a', AS LATCH REPLACES FIRST AND LAST
CODING KEY.
 9. REFER TO PACKAGING SPECIFICATION: PK-90871-001



SHIPPING ARRANGEMENT
SCALE 2:1

EXAMPLE OF PCB LAYOUT FOR CONNECTOR SHOWN ABOVE
- 8CCT WITH POLARISING RIB BETWEEN CCT 1&2 AND 6&7
- RECOMMENDED PCB THICKNESS: 1.50±0.14mm

ADDED PART NUMBER EC NO: E2010-0115 M DRW:MMCNAMAR CHKD:BRUTELLE APPR:BMAGUIRE 2009/10/15 2009/10/15 2009/10/15	DESCRIPTION QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
			MM ONLY		5:1	METRIC			
					TITLE		2.5MM APPLI-MATE W/SIDE LATCHES (2.5 & 5MM TERM PITCH)		
					DRAWN BY DATE		2.5MM APPLI-MATE W/SIDE LATCHES (2.5 & 5MM TERM PITCH)		
			4 PLACES ± --- ± ---		N. MCNAMA 2004/09/07				
			3 PLACES ± 0.10 ± ---		CHECKED BY DATE				
			2 PLACES ± 0.10 ± ---		JDENNEHY 2004/09/08				
			1 PLACE ± 0.2 ± ---		APPROVED BY DATE				
			ANGULAR ± 2 °		BMAGUIRE 2004/09/09				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
		SEE SHEET 2-5		SD-91780-001		1 OF 3			
REV		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 POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-9001	CCT 2	a d		CCT 1&2	NONE
91780-9002	CCT 2	a d		CCT 2&3	NONE
91780-9003	CCT 2	a d		NONE	NONE
91780-9004	CCT 2	a c d		CCT 1&2	RED
91780-9005	CCT 2	a b d		CCT 1&2	GREEN
91780-9006	CCT 2	a c d		CCT 2&3	BLUE
91780-9007	CCT 2	a b d		CCT 2&3	BLACK
91780-9008	CCT 2	a c d		CCT 1&2	NONE
91780-9009	CCT 2	a c d		CCT 2&3	NONE
91780-9010	CCT 2	a b d		CCT 2&3	NONE
91780-9011	CCT 2	a b d		CCT 1&2	NONE

3 CIRCUIT

MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-0001	NONE	a d		CCT 1&2	NONE
91780-0002	NONE	a c d		NONE	NONE
91780-0003	NONE	a d		CCT 2&3	NONE
91780-0004	NONE	a c d		CCT 1&2	NONE
91780-0005	NONE	a b d		CCT 1&2	NONE
91780-0006	NONE	a d		CCT 2&3	BLACK
91780-0007	NONE	a d		CCT 1&2	RED

4 CIRCUIT

MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-0501	NONE	a e		CCT 1&2	NONE
91780-0502	NONE	a e		NONE	NONE
91780-0503	CCT 3	a b e		NONE	RED
91780-0504	NONE	a d e		NONE	BLACK
91780-0505	NONE	a d e		NONE	NONE
91780-0506	CCT 3	a b e		NONE	NONE
91780-0507	NONE	a e		CCT 1&2	BLACK
91780-0508	NONE	a e		NONE	RED
91780-0509	NONE	a c e		CCT 1&2	NONE
91780-0510	NONE	a e		CCT 3&4	NONE

5 CIRCUIT

MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-1001	NONE	a f		CCT 2&3	NONE
91780-1002	NONE	a f		CCT 1&2	NONE
91780-1003	NONE	a f		CCT 2&3	BLACK
91780-1004	CCT 4	a f		CCT 1&2	GREEN
91780-1005	NONE	a f		CCT 3&4	RED
91780-1006	CCT 2	a f		CCT 3&4	BLUE

6 CIRCUIT

MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-1501	NONE	a g		CCT 2&3	NONE
91780-1502	NONE	a g		CCT 5&6	NONE
91780-1503	NONE	a g		CCT 2&3	BLACK
91780-1504	NONE	a g		CCT 2&3	BLUE
91780-1505	NONE	a g		CCT 1&2	NONE

7 CIRCUIT

MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-2001	NONE	a h		CCT 1&2 & CCT 5&6	NONE
91780-2002	CCT 2	a h		CCT 1&2	NONE
91780-2003	NONE	a h		CCT 2&3	BLACK

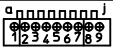
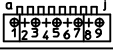
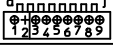
8 CIRCUIT

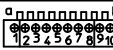
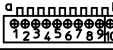
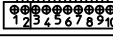
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-2501	NONE	a i		CCT 1&2 & CCT 6&7	NONE
91780-2502	CKT 2, 5	a i		CCT 1&2 & CCT 6&7	NONE
91780-2503	CKT 2	a i		CCT 1&2 & CCT 6&7	NONE
91780-2504	NONE	a i		CCT 2&3	NONE
91780-2505	CKT 2, 5	a i		CCT 2&3	NONE
91780-2506	NONE	a i		CCT 1&2	NONE
91780-2507	NONE	a i		CCT 3&4	NONE
91780-2508	NONE	a i		CCT 3&4	RED

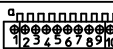
NOTES

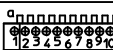
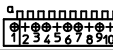
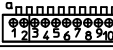
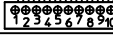
- + DENOTES TERMINAL VOIDED POSITION
● DENOTES TERMINAL LOADED POSITION
I DENOTES POLARIZING RIB POSITION

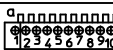
SEE SHEET 1 SEC NO: E2010-015 DRAWN BY: N.MCNAME CHKD BY: CHKOBRUTTE APPR: BMAGUIRE DATE: 2009/10/15 REV: 1	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±.--- ±.--- 3 PLACES ±0.10 ±.--- 2 PLACES ±0.10 ±.--- 1 PLACE ±0.2 ±.--- ANGULAR ± 2°	DIMENSION STYLE MM ONLY DRAWN BY: N.MCNAME DATE: 2004/09/07 CHECKED BY: J.DENNEY DATE: 2004/09/08 APPROVED BY: BMAGUIRE DATE: 2004/09/09	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				2.5MM APPLI-MATE W/SIDE LATCHES (2.5 & 5MM TERM PITCH)		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE CHARTS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
MATERIAL NO.				DOCUMENT NO.		
SD-91780-001				SHEET NO. 2 OF 3		

9 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-3001	NONE	α j		CCT 1&2 & CCT 7&8	NONE
91780-3426	CCT 2, 4, 6, 8	α j		CCT 1&2 & CCT 7&8	NONE
91780-3003	CCT 2	α j		CCT 2&3	GREEN

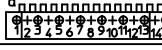
10 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-3501	NONE	α k		CCT 1&2 & CCT 8&9	NONE
91780-3502	NONE	α k		CCT 9&10	RED
91780-3503	NONE	α k		CCT 9&10	NONE
91780-3504	NONE	α k		CCT 2&3	NONE
91780-3505	NONE	α k		CCT 2&3	BLACK

11 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-4001	NONE	α l		CCT 1&2 & CCT 9&10	NONE

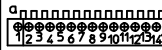
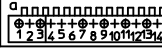
12 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-4501	NONE	α m		CCT 1&2 & CCT 10&11	NONE
91780-4502	CCT 2, 5, 8, 10	α m		CCT 1&2 & CCT 10&11	NONE
91780-4503	NONE	α m		CCT 2&3	NONE
91780-4504	CCT 2, 5, 8, 10	α m		CCT 2&3	NONE
91780-4505	NONE	α m		CCT 2&3	BLACK
91780-4506	NONE	α m		CCT 11&12	NONE

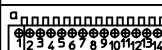
13 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-5001	NONE	α n		CCT 1&2 & CCT 11&12	NONE

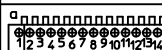
14 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-5501	NONE	α o		CCT 1&2 & CCT 12&13	NONE

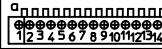
15 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-6001	NONE	α p		CCT 1&2 & CCT 13&14	NONE
91780-6426	CCT 2, 4, 6, 8, 10, 12, 14	α p		CCT 1&2 & CCT 13&14	NONE

16 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-6501	NONE	α q		CCT 1&2 & CCT 14&15	NONE

17 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-7001	NONE	α r		CCT 1&2 & CCT 15&16	NONE
91780-7002	CCT 2, 4, 5, 6, 8, 10, 12, 14, 16,	α r		CCT 3&4 & CCT 15&16	NONE

18 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-7501	NONE	α s		CCT 1&2 & CCT 16&17	NONE

19 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-8001	NONE	α t		CCT 1&2 & CCT 17&18	NONE

20 CIRCUIT					
MOLEX PART NO.	TERMINAL VOID POSITION	REMOVED POSITION KEYS	CONFIGURATION (SEE NOTE 1)	POLARIZING RIB BETWEEN	COLOUR STRIPE
91780-8501	NONE	α u		CCT 1&2 & CCT 18&19	NONE

- NOTES
- 1 + DENOTES TERMINAL VOIDED POSITION
⊕ DENOTES TERMINAL LOADED POSITION
| DENOTES POLARIZING RIB POSITION

SEE SHEET 1 EC NO: E2010-015 DRAWN BY: N.MCNAME CHECKED BY: J.DENNEHY APPROVED BY: B.MAGUIRE DATE: 2009/10/15 DATE: 2009/10/15 DATE: 2009/10/15	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		mm		INCH		DRAWN BY DATE N.MCNAME 2004/09/07				
		4 PLACES ± ---		± ---		CHECKED BY DATE J.DENNEHY 2004/09/08				
		3 PLACES ± 0.10		± ---		APPROVED BY DATE B.MAGUIRE 2004/09/09				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 2°		MATERIAL NO.		DOCUMENT NO.		SD-91780-001		
SEE CHARTS		SIZE 1		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO.				
						3 OF 3				