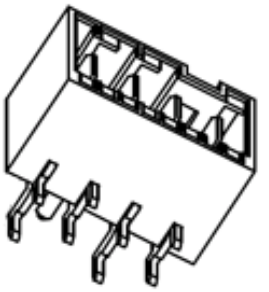
This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0908583498
Status: Active
Overview: rast_5_connector_system
Description: 5.00mm (.197") Pitch Appli-Mate RAST 5 Header, Vertical, 6 Circuits, Silver Plating, Reference K30



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Packaging Specification (PDF)
Product Specification PS-99020-0037 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	90858
Application	Wire-to-Board
Overview	rast_5_connector_system
Product Name	RAST 5

Physical

Breakaway	No
Circuits (Loaded)	6
Circuits (maximum)	6
Color - Resin	Natural
Durability (mating cycles max)	10
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Silver
Material - Plating Termination	Silver
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.138 In
PC Tail Length (mm)	3.50 mm
PCB Locator	Yes
PCB Retention	None
PCB Thickness Recommended (in)	0.055 In
PCB Thickness Recommended (mm)	1.40 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.197 In
Pitch - Mating Interface (mm)	5.00 mm
Polarized to PCB	Yes
Shrouded	Fully
Stackable	Yes
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-20°C to +85°C
Termination Interface: Style	Through Hole

Electrical

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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
90858Series

Mates With
Appli-Mate 5.0 IDT Connector System Female Receptacle 90835 , 90833

Current - Maximum per Contact	16A
Voltage - Maximum	250V

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-90858-001
Product Specification	PS-99020-0037
Sales Drawing	SD-90858-001

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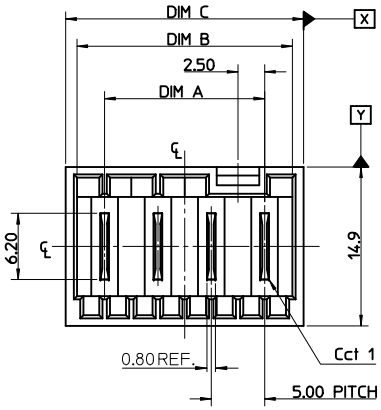
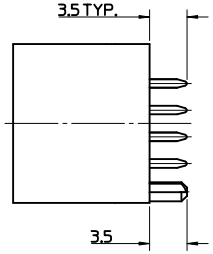
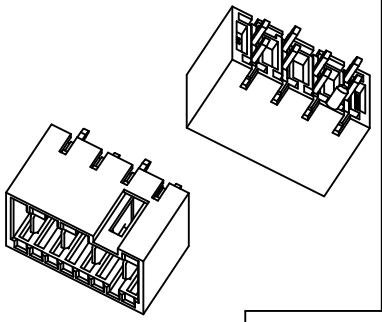
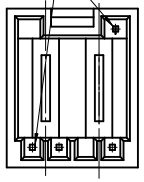


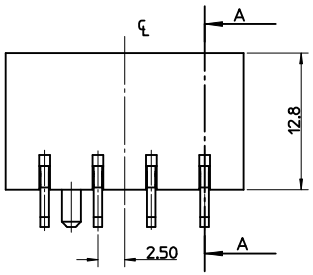


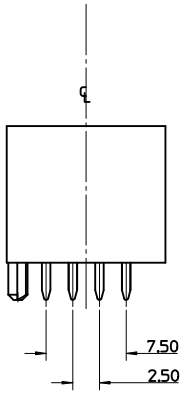


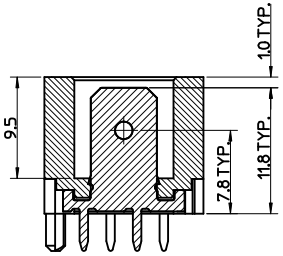
HOLES ON SOME TOOLED VERSIONS



CCT	DIM A	DIM B	DIM C	TOL
2	5.00	10.20	12.30	+/-0.30
3	10.00	15.20	17.30	
4	15.00	20.20	22.30	
5	20.00	25.20	27.30	
6	25.00	30.20	32.30	
7	30.00	35.20	37.30	
8	35.00	40.20	42.30	
9	40.00	45.20	47.30	
10	45.00	50.20	52.30	
11	50.00	55.20	57.30	
12	55.00	60.20	62.30	



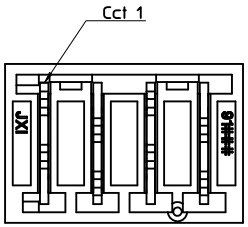


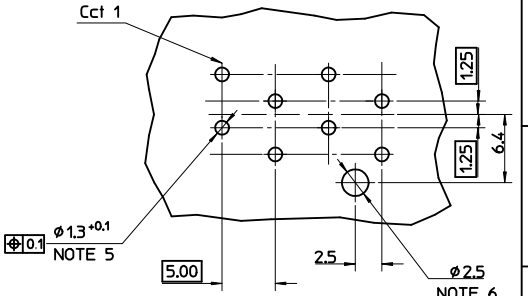


A-A
Scale 3:1

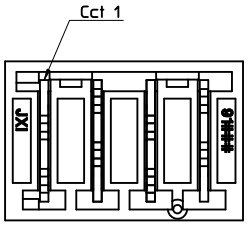
RECOMMENDED PCB LAYOUT

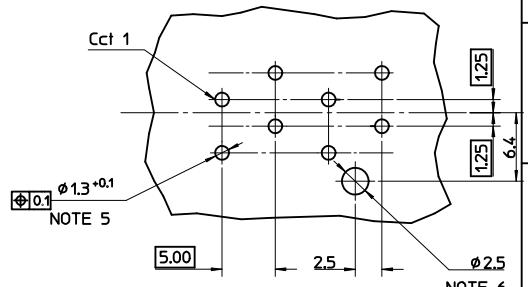
P.C.B. POLARISATION
OPTION "B"

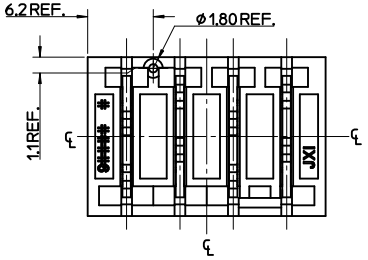




P.C.B. POLARISATION
OPTION "A"







NOTES:
1. MATERIALS
   HOUSING: 30% GLASS-FILLED PBT, UL94 V-0
   TERMINAL: BRASS 0.80REF. THICK
   PLATING: OPTIONAL (SEE CHARTS SHEETS 2-9)
   5µm TIN OVER
   2.5µm NICKEL ALLOVER
   SELECTIVE SILVER
   2µm MIN SILVER
   2.5µm NICKEL ALLOVER
2. PRODUCT CONFORMS TO SPECIFICATION PS-99020-0037
3. MATES WITH MOLEX 91338, 90833, 90835, 91777, 91778 & 91779
4. PARTS PACKAGED LOOSE IN PLASTIC BAGS
5. PLATED THRU HOLE
6. NON-PLATED THRU HOLE
7. RECCOMMENDED PCB THICKNESS: 1.4±0.1mm
8. PCB VIEW IS FROM SOLDER SIDE

MOULD PROCESS CHANGE
EC NO: E2010-0370 2010/05/13
DRWN:BRUTTLE 2004/05/27
CH'KD:JDENNEHY 2010/06/08
APPR:BMAGUIRE
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.1	± ---
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	NMCNAMAR	2004/05/26
CHECKED BY	JDENNEHY	2004/05/27
APPROVED BY	BMAGUIRE	2004/05/28

TITLE: RAST 5 VERT HDR

MOLEX INCORPORATED

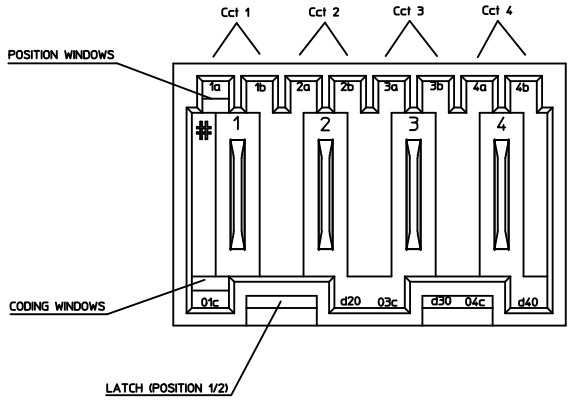
MATERIAL NO.: SEE SHEETS 2-7
DOCUMENT NO.: SD-90858-001
SHEET NO.: 1 OF 7
SIZE: A2

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

2 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS

PART NO. (TIN)	COLOUR	UNBLOCKED POSITION KEYS	UNBLOCKED CODING KEYS	LATCH POSITION	CONFIGURATION (SEE NOTES)	REF	PART NO. (SILVER)	P.C.B. POLARISATION OPTION
90858-0003	NATURAL	1b 2a	01c d20	1/2		K01	90858-0499	A
90858-0004	NATURAL	1a 2b	01c	1/2		K02	90858-0482	A
90858-0007	NATURAL	1b 2b	01c	1/2		K09	90858-0497	A
90858-0018	NATURAL	2a	01c, d20	1/2		K03	90858-0495	A
90858-0019	NATURAL	1a 2b	d20	1/2		K05	90858-0478	A
90858-0021	NATURAL	1b	01c, d20	1/2		K16	90858-0492	A
90858-0022	NATURAL	1a 2b	NONE	1/2		K06	90858-0491	A
90858-0027	NATURAL	2b	NONE	1/2		K11	90858-0487	A
90858-0029	NATURAL	1a 1b	d20	1/2		K13	90858-0486	A
90858-0030	NATURAL	2a 2b	NONE	1/2		K31	90858-0485	A
90858-0032	NATURAL	2b	d20	1/2		K38	90858-0484	A
90858-0047	NATURAL	1a 2a	01c d20	1/2		K44	90858-0483	A
90858-0055	NATURAL	1a 1b	NONE	1/2		K40	90858-0480	A
90858-0020	NATURAL	1a 1b	01c	1/2		K04	90858-0475	A
90858-0054	NATURAL	2b	01c d20	1/2		K15	90858-0476	A
90858-0057	NATURAL	1a	01c d20	1/2		K12	90858-0477	A
90858-0058	NATURAL	1a 2a	01c	1/2		K10	90858-0472	A
90858-0059	NATURAL	ALL	d20	1/2		K34	90858-0474	A
90858-0060	NATURAL	1b 2a 2b	d20	1/2		K07	90858-0473	A
90858-0061	NATURAL	1b 2a	01c d20	1/2		K01	90858-0471	B



KEYING, CODING & LATCH POSITION
(4CCT EXAMPLE SHOWN)
VIEW INMATING DIRECTION

SEE SHEET 1
EC NO: E2010-0370
DRWN:BRUTTLE 2010/05/13
CHKD:JDENNEHY 2004/05/27
APPR:BMAGUIRE 2010/06/08
REV DESCRIPTION

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
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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: NMCNAMAR DATE: 2004/05/26
CHECKED BY: JDENNEHY DATE: 2004/05/27
APPROVED BY: BMAGUIRE DATE: 2004/05/28

TITLE: RAST 5 VERT HDR

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-90858-001
SHEET NO.: 2 OF 7
SIZE: A1

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3 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS

PART NO. (TIN)	COLOUR	UNBLOCKED POSITION KEYS	UNBLOCKED CODING KEYS	LATCH POSITION	CONFIGURATION (SEE NOTES)	REF	PART NO. (SILVER)	P.C.B. POLARISATION OPTION
90858-0502	NATURAL	1b	01c, d20	1/2		K01	90858-1249	A
90858-0508	NATURAL	1a	03c	1/2		K04	90858-1248	A
90858-0511	NATURAL	1a 1b	d30	1/2		K05	90858-1247	A
90858-0512	NATURAL	1a 3b	01c	1/2		K06	90858-1246	A
90858-0513	NATURAL	1b	d20 03c	1/2		K09	90858-1245	A
90858-0524	NATURAL	1b 2a 2b	d30	1/2		K33	90858-1244	A
90858-0525	NATURAL	2b	d20	1/2		K56	90858-1243	A
90858-0528	NATURAL	ALL	d10 d30	2/3		K38	90858-1242	A
90858-0527	NATURAL	ALL	d20	1/2		K40	90858-1240	A
90858-0526	NATURAL	2b 3b	d10 02c	2/3		K02	90858-1241	A
90858-0529	NATURAL	1b	01c d20	1/2			90858-1239	A
90858-0530	NATURAL	3b	d10, d30	2/3			90858-1238	A
90858-0531	NATURAL	3b	01c, d30	2/3			90858-1237	A
90858-0532	NATURAL	3b	d10, 02c	2/3			90858-1236	A

4 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS

PART NO. (TIN)	COLOUR	UNBLOCKED POSITION KEYS	UNBLOCKED CODING KEYS	LATCH POSITION	CONFIGURATION (SEE NOTES)	REF	PART NO. (SILVER)	P.C.B. POLARISATION OPTION
90858-1254	NATURAL	1b	03c d40	1/2 3/4		K01	90858-1999	A
90858-1264	NATURAL	1a 4b	d40	1/2 3/4		K03	90858-1998	A
90858-1265	NATURAL	2a 4b	d20	1/2 3/4		K07	90858-1996	A
90858-1267	NATURAL	1b 2a 3a 4b	01c d40	1/2 3/4		K37	90858-1994	A
90858-1270	NATURAL	1a 2b 4b	01c 03c d40	1/2 3/4		K44	90858-1993	A
90858-1274	NATURAL	1a 3a 3b	01c d20 d40	1/2 3/4		K32	90858-1992	A
90858-1275	NATURAL	1b 2a 4b	01c d20 03c	1/2 3/4		K61	90858-1991	A
90858-1278	NATURAL	1a 3a	d40	1/2 3/4		K06	90858-1987	A
90858-1280	NATURAL	1a 2b 3b 4a	01c 03c d40	1/2 3/4		K65	90858-1988	A
90858-1281	NATURAL	2a 4b	d20 03c	1/2 3/4		K30	90858-1986	A
90858-1282	NATURAL	3b	d30	2/3		K04	90858-1985	A
90858-1283	NATURAL	1b 2a 4b	01c d20 03c d40	1/2 3/4		N/A	90858-1984	A
90858-1284	NATURAL	2a 3a 3b 4b	01c d20 03c d40	1/2 3/4		N/A	90858-1983	A

SEE SHEET 1
EC NO: E2010-0370
DRWN:BRUTTLE 2010/05/13
CHKD:JDENNEHY 2004/05/27
APPR:BMAGUIRE 2010/06/08
REV L
DESCRIPTION

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
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3 PLACES	± ---	± ---
2 PLACES	± 0.1	± ---
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	NMCNAMAR	2004/05/26
CHECKED BY	JDENNEHY	2004/05/27
APPROVED BY	BMAGUIRE	2004/05/28

TITLE: RAST 5 VERT HDR

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-90858-001
SHEET NO.: 3 OF 7
SIZE: A1

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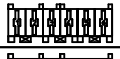
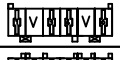
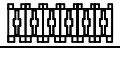
5 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS

PART NO. (TIN)	COLOUR	UNBLOCKED POSITION KEYS	UNBLOCKED CODING KEYS	LATCH POSITION	CONFIGURATION (SEE NOTES)	REF	PART NO. (SILVER)	P.C.B. POLARISATION OPTION
90858-2000	NATURAL	1a 5b	01c d30	1/2 2/3		K01	90858-2749	A
90858-2001	NATURAL	1a 3a	01c d30	1/2 4/5		K30	90858-2748	A
90858-2002	NATURAL	1a 5b	01c d20 03c d50	1/2 3/4		K31	90858-2747	A
90858-2003	NATURAL	1b 2a 3b 5a	01c 03c	1/2 3/4		K35	90858-2746	A
90858-2004	NATURAL	1a 2a 2b 4b 5b	01c d30 04c d50	1/2 2/3 4/5		K36	90858-2745	A
90858-2006	NATURAL	2a	01c d50	2/3 4/5		K43	90858-2742	A
90858-2012	NATURAL	2a 4b	01c d20 d40	1/2 3/4		K44	90858-2743	A
90858-2013	NATURAL	2b	d20	1/2 4/5		K02	90858-2741	A
90858-2014	NATURAL	4b 5a	01c d30 04c d50	1/2 4/5		K45	90858-2740	A
90858-2015	NATURAL	NONE	01c d40	1/2 3/4		K46	90858-2739	A
90858-2017	NATURAL	1a 4a	d30	1/2 4/5		K04	90858-2737	A
90858-2024	NATURAL	1a 5b	d20 d40	1/2 3/4		K77	90858-2732	A
90858-2025	NATURAL	2b	d20 d50	1/2 3/4		K95	90858-2733	A
90858-2026	NATURAL	1a 5b	01c d20 03c d50	1/2 3/4			90858-2734	A
90858-2027	NATURAL	1a 3a 4b 5a	03c 04c	1/2 4/5		K73	90858-2735	A
90858-2028	NATURAL	2b	d20	1/2 4/5			90858-2731	A
90858-2029	NATURAL	1b 2a 4a	01c 04c d50	1/2 4/5		K51	90858-2730	A
90858-2030	NATURAL	2b 3b 4a	01c d20 d40	1/2 3/4		K52	90858-2729	A
90858-2031	NATURAL	1a 5b	01c d20 03c d50	1/2 4/5		K86	90858-2728	A
90858-2032	NATURAL	1a 1b 4a	d30 04c d50	1/2 4/5		K64	90858-2727	A
90858-2033	NATURAL	1a 5b	01c d20 03c d50	1/2 3/4			90858-2726	B

6 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS

PART NO. (TIN)	COLOUR	UNBLOCKED POSITION KEYS	UNBLOCKED CODING KEYS	LATCH POSITION	CONFIGURATION (SEE NOTES)	REF	PART NO. (SILVER)	P.C.B. POLARISATION OPTION
90858-2753	NATURAL	1b	03c d60	1/2 4/5		K01	90858-3499	A
90858-2754	NATURAL	1a 3b 4b	01c d50 06c	1/2 4/5		K30	90858-3498	A
90858-2755	NATURAL	1a 1b 2b 3a 3b 4b	d30 04c d50	1/2 2/3 4/5		K37	90858-3497	A
90858-2756	NATURAL	1a 1b 4a 4b	d10 d50	2/3 4/5		K39	90858-3496	A
90858-2757	NATURAL	2a 4b 5a 6b	d20 03c 05c	1/2 3/4 5/6		K42	90858-3495	A
90858-2758	NATURAL	1a 2b 3a 3b 5b 6b	01c d40 d60	1/2 3/4 5/6		K43	90858-3494	A
90858-2759	NATURAL	1b 2a 3a 4b 5a 5b 6b	01c 03c d60	1/2 3/4 5/6		K44	90858-3493	A
90858-2761	NATURAL	2b	d20 d60	1/2 5/6		K46	90858-3492	A
90858-2762	NATURAL	2b 3b 4a	01c d50 06c	1/2 4/5		K36	90858-3491	A
90858-2768	NATURAL	1b 4b	d20 03c d50 06c	1/2 4/5		K58	90858-3486	A
90858-2769	NATURAL	1a 2b 3b 4a 6b	01c 03c d40 05c d60	1/2 3/4 5/6		K59	90858-3485	A
90858-2770	NATURAL	1a 2b 4a 6b	01c d40	1/2 3/4 5/6		K62	90858-3484	A
90858-2771	NATURAL	1b 6b	d40	1/2 5/6		K04	90858-3483	A
90858-2772	NATURAL	1b 2a 3a 4b 5a 5b 6b	01c d60	2/3 5/6		K15	90858-3482	A
								

SEE SHEET 1

EC NO: E2010-0370 2010/05/13
DRWN:BBRUTTLE 2004/05/27
CHKD:JDENNEHY 2010/06/08
APPR:BMAGUIRE
REV DESCRIPTION

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.1	± ---
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	NMCNAMAR	2004/05/26
CHECKED BY	JDENNEHY	2004/05/27
APPROVED BY	BMAGUIRE	2004/05/28

TITLE: RAST 5 VERT HDR

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-90858-001
SHEET NO.: 4 OF 7
SIZE: A1

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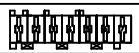
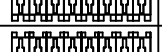
7 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS

PART NO. (TIN)	COLOUR	UNBLOCKED POSITION KEYS	UNBLOCKED CODING KEYS	LATCH POSITION	CONFIGURATION (SEE NOTES)	REF	PART NO. (SILVER)	P.C.B. POLARISATION OPTION
90858-3511	NATURAL	NONE	03c d40 07c	1/2 5/6		K01	90858-4249	A
90858-3512	NATURAL	3a 4a	d30 d70	1/2 5/6		K30	90858-4248	A
90858-3504	NATURAL	2b	d20 d60	1/2 5/6		K32	90858-4247	A
90858-3508	NATURAL	1a 1b 3a 4b 5a	01c 07c	1/2 3/4 5/6		K40	90858-4243	A
90858-3509	NATURAL	2a	01c d50	2/3 4/5		K41	90858-4242	A
90858-3515	NATURAL	7b	01c d40 d70	1/2 3/4 6/7		K43	90858-4240	A
90858-3516	NATURAL	1b	03c d60	1/2 4/5		K31	90858-4239	A
90858-3517	NATURAL	1a 3a 4b 7b	01c d20 03c 06c	1/2 3/4 6/7		K45	90858-4238	A
90858-3519	NATURAL	1b 7a	02c d50	2/3 6/7		K48	90858-4237	A
90858-3521	NATURAL	1a 2b 3a 4b 6a	d20 03c d40 d50 d70	1/2 3/4 6/7		K51	90858-4236	A
90858-3522	NATURAL	1b 6a	d20 03c d50 d70	1/2 3/4 6/7		K69	90858-4235	A
90858-3523	NATURAL	1b 2a 5a 5b 7b	d20 d50 06c d70	1/2 4/5 6/7		K34	90858-4234	A
90858-3524	NATURAL	2b	d20 07c	1/2 3/4 5/6		K35	90858-4233	A
90858-3525	NATURAL	2a 2b 4b 5b 6a	d20 03c d40 d60	1/2 3/4 5/6		K38	90858-4232	A
90858-3526	NATURAL	2b 4a 4b 5b 6a	01c d20 d40 d60	1/2 3/4 5/6		K42	90858-4231	A

8 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS

PART NO. (TIN)	COLOUR	UNBLOCKED POSITION KEYS	UNBLOCKED CODING KEYS	LATCH POSITION	CONFIGURATION (SEE NOTES)	REF	PART NO. (SILVER)	P.C.B. POLARISATION OPTION
90858-4252	NATURAL	4a 6b	03c d60	1/2 3/4 5/6 7/8		K30	90858-4998	A
90858-4253	NATURAL	1a 2a 3a 3b 6a 7a 7b 8b	01c 05c d60	1/2 3/4 5/6 7/8		K33	90858-4996	A
90858-4257	NATURAL	2b 3b 4b 5a 5b 7a 8b	01c d60 d80	1/2 4/5 7/8		K41	90858-4995	A
90858-4259	NATURAL	1b 4b 7b 8b	01c d20 04c d50 07c	1/2 4/5 7/8		K45	90858-4993	A
90858-4260	NATURAL	1a 1b 3b 5a 6b 7a 8b	01c 03c d40 d60	1/2 3/4 5/6 7/8		K46	90858-4992	A
90858-4262	NATURAL	1b 5a 6b 8a	03c d40 05c 07c d80	1/2 3/4 5/6 7/8		K48	90858-4991	A
90858-4265	NATURAL	8b	02c d30 07c	2/3 7/8			90858-4999	A
90858-4266	NATURAL	1a 4b 5b 6a 8b	d40 d60 07c d80	1/2 3/4 5/6 7/8		K44	90858-4990	A
90858-4267	NATURAL	8b	02c d30	2/3		K49	90858-4989	A
90858-4268	NATURAL	2b 8a	03c d60	1/2 7/8		K43	90858-4988	A
								

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DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: NMCNAMAR DATE: 2004/05/26
CHECKED BY: JDENNEHY DATE: 2004/05/27
APPROVED BY: BMAGUIRE DATE: 2004/05/28

TITLE: RAST 5 VERT HDR

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MATERIAL NO.: SEE CHART
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