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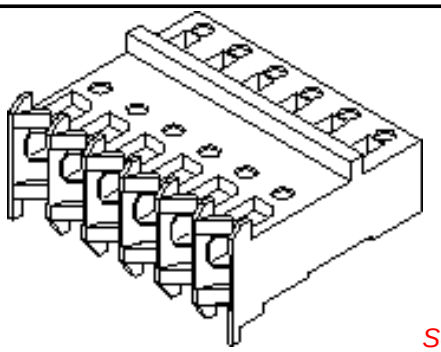
# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0038002094
**Status:** Active
**Overview:** kk
**Description:** 2.54mm (.100") KK® IDT Double Cantilever Contact, 4 Circuits, Tin (Sn), Feed-Through, Friction Ramp and Polarizing Rib, Brown ID Strip



*Series image - Reference only*

**Documents:**

- 3D Model
- Drawing (PDF)
- Product Specification PSX-7690S (PDF)
- RoHS Certificate of Compliance (PDF)

## Agency Certification

| | |
|---|---|
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | IDT and Solder Connectors |
| Series | 7720 |
| Comments | Version J |
| Crimp Quality Equipment | Yes |
| Overview | kk |
| Product Name | KK® |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 4 |
| Circuits (maximum) | 4 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 5 |
| Flammability | 94V-2 |
| Gender | Female |
| Glow-Wire Compliant | No |
| Lock to Mating Part | None |
| Material - Metal | Brass |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | Nylon |
| Number of Rows | 1 |
| Packaging Type | Bag |
| Panel Mount | No |
| Pitch - Mating Interface (in) | 0.100 In |
| Pitch - Mating Interface (mm) | 2.54 mm |
| Pitch - Term. Interface (in) | 0.100 In |
| Pitch - Term. Interface (mm) | 2.54 mm |
| Polarized to Mating Part | Yes |
| Stackable | No |
| Temperature Range - Operating | 0°C to +50°C |
| Termination Interface: Style | IDT or Pierce |
| Wire Size AWG | 26 Stranded, 28 Solid, 28 Stranded Topcoat |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 4A |
| Voltage - Maximum | 250V |

## Solder Process Data

| | |
|---|---|
| Lead-free Process Capability | Wave Capable (TH only) |

## Material Info

| | |
|---|---|
| Old Part Number | A-7720S-C4J |

**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**
7720Series

**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 # |
|---|---|
| Insertion Tool for 2.54mm (.100") Pitch KK® IDT Crimp Terminals | 0638133504 |
| IDT - Semi-automatic - Bench-Top Terminator | 0011200412 |

## Reference - Drawing Numbers

| | |
|---|---|
| Packaging Specification | PK-7720-100 |
| Product Specification | PSX-7690S |
| Sales Drawing | SDA-7720S-*N* |

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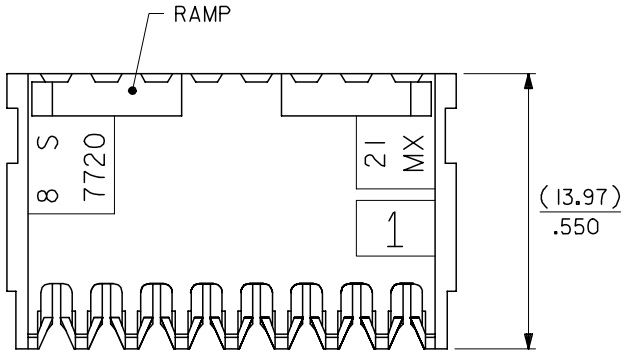
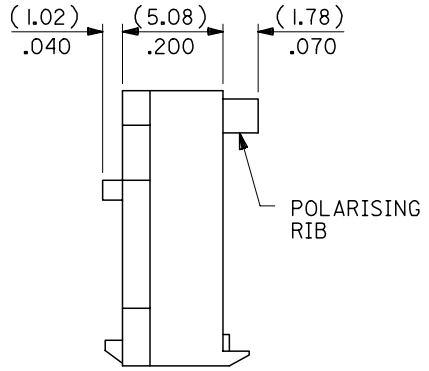
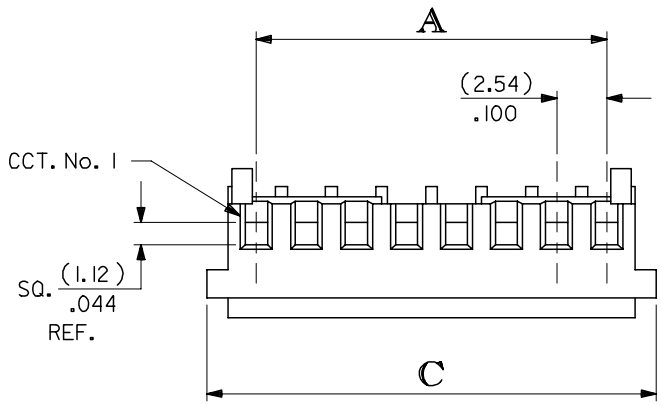
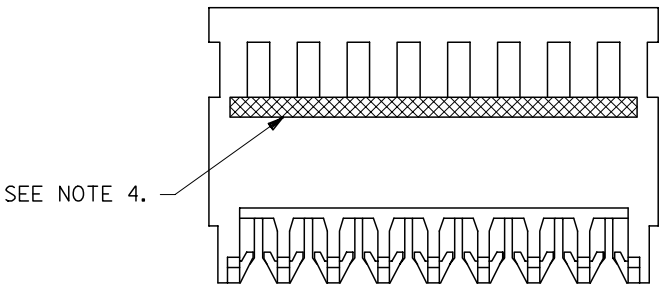



| NO OF CCTS | DIMn. A | DIMn. C |
|---|---|---|
| 2 | ( 2.54)/ .100 | ( 7.59)/ .299 |
| 3 | ( 5.08)/ .200 | (10.13)/ .399 |
| 4 | ( 7.62)/ .300 | (12.67)/ .499 |
| 5 | (10.16)/ .400 | (15.21)/ .599 |
| 6 | (12.70)/ .500 | (17.75)/ .699 |
| 7 | (15.24)/ .600 | (20.29)/ .799 |
| 8 | (17.78)/ .700 | (22.83)/ .899 |
| 9 | (20.32)/ .800 | (25.37)/ .999 |
| 10 | (22.86)/ .900 | (27.91)/1.099 |
| 11 | (25.40)/1.000 | (30.45)/1.199 |
| 12 | (27.94)/1.100 | (32.99)/1.299 |
| 13 | (30.48)/1.200 | (35.53)/1.399 |
| 14 | (33.02)/1.300 | (38.07)/1.499 |
| 15 | (35.56)/1.400 | (40.61)/1.599 |
| 16 | (38.10)/1.500 | (43.15)/1.699 |
| 17 | (40.64)/1.600 | (45.69)/1.799 |
| 18 | (43.18)/1.700 | (48.23)/1.899 |
| 19 | (45.72)/1.800 | (50.77)/1.999 |
| 20 | (48.26)/1.900 | (53.31)/2.099 |
| 21 | (50.80)/2.000 | (55.85)/2.199 |
| 22 | (53.34)/2.100 | (58.39)/2.299 |
| 23 | (55.88)/2.200 | (60.93)/2.399 |
| 24 | (58.42)/2.300 | (63.47)/2.499 |
| 25 | (60.96)/2.400 | (66.01)/2.599 |
| 26 | (63.50)/2.500 | (68.55)/2.699 |
| 27 | (66.04)/2.600 | (71.09)/2.799 |
| 28 | (68.58)/2.700 | (73.63)/2.899 |




A-7720S-∗N∗-∗

- BASE No.
- HOUSING CONFIGURATION
- No. OF CCTS.
- TERMINAL DESIGNATION
- VOID LOC'n.

WITHOUT BACKWALL
- A. HSG, NO RAMP, NO POL. RIBS
- B. WITH RAMP
- C. WITH RAMP AND POL. RIB

WITH BACKWALL
- D. HSG, NO RAMP, NO POL. RIB
- E. WITH RAMP
- F. WITH RAMP AND POL. RIB

NOTES:

1. MATERIAL: NYLON 6/6, 94V-2, NATURAL.
2. THIS ASSY. IS FOR USE WITH (0.64)/.025 SQ. OR RD. PINS. INSERTION DEPTH (6.10-7.87)/.240-.310
3. THIS ASSY. WILL ACCOMMODATE (1.42)/.056 MAX. INSULATION DIA.
4. COLOURED STRIPE ON FULL LENGTH OF RIB DENOTES WIRE GAUGE (SEE CHART).
5. VOIDS ARE AVAILABLE WITH PIN WINDOWS MOULDED CLOSED.
6. ALL TERMINALS HAVE CAT-EARS CONFIGURATION EXCEPT WHEN GOLD PLATED.
7. FOR STANDARD PARTS SEE SHEETS 2&3.
8. FOR NON STANDARD PLATING OPTIONS SEE SHEET 4.

REVISION UPDATE
EC NO: E2007-0125
DRWN:DWASZKIEWICZ 2006/10/10
CHKD:D. MORIARTY 2006/10/11
APPR: J.DENNEHY 2006/10/11
DESCRIPTION
REV: V

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .005 |
| 2 PLACES | ± 0.13 | ± .010 |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 2 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: GCH DATE:
CHECKED BY: D.MORIARTY DATE:
APPROVED BY: J.DENNEHY DATE:
MATERIAL NO.: SEE CHART

TITLE: HOUSING I.D. CONNECTOR (2.54)/.100 CENTRES NON$

molex MOLEX INCORPORATED

DOCUMENT NO.: SDA-7720S-∗N∗
SHEET NO.: 1 OF 4

SIZE A3

| PART NO. | ENG. NO. | CCTS. | TERMINAL | I.D. STRIPE | PLATING |
|---|---|---|---|---|---|
| 38-00-2092 | A-7720S-C 2J | 2 | 40125-J(P918) | BROWN | HOT TIN DIP<br>(1-3μM)/.000040-.000120 |
| 2093 | C 3J | 3 | | | |
| 2094 | C 4J | 4 | | | |
| 2095 | C 5J | 5 | | | |
| 2096 | C 6J | 6 | | | |
| 2097 | C 7J | 7 | | | |
| 2098 | C 8J | 8 | | | |
| 2099 | C 9J | 9 | | | |
| 2100 | C10J | 10 | | | |
| 2101 | C11J | 11 | | | |
| 2102 | C12J | 12 | | | |
| 2103 | C13J | 13 | | | |
| 2104 | C14J | 14 | | | |
| 2105 | C15J | 15 | | | |
| 2106 | C16J | 16 | | | |
| 2107 | C17J | 17 | | | |
| 2108 | C18J | 18 | | | |
| 2109 | C19J | 19 | | | |
| 2110 | C20J | 20 | | | |
| 2111 | C21J | 21 | | | |
| 2112 | C22J | 22 | | | |
| 2113 | C23J | 23 | | | |
| 2114 | C24J | 24 | | | |
| 2115 | C25J | 25 | | | |
| 2116 | C26J | 26 | | | |
| 2117 | C27J | 27 | | | |
| 38-00-2118 | A-7720S-C28J | 28 | 40125-J(P918) | BROWN | |

| PART NO. | ENG. NO. | CCTS. | TERMINAL | I.D. STRIPE | PLATING |
|---|---|---|---|---|---|
| 38-00-0579 | A-7720S-C6J(561) | 6 | 40627-J(561) | BROWN | SELECTIVE GOLD (0.76μM)/.000030 MIN.<br>OVER (1.27μM)/.000050 NICKEL MIN. |

NOTE: 18 - 28 CIRCUITS ARE NON-STANDARD.

CORRECT PLATING
EC NO: E2007-0125
DRWN:DWASZKIEWICZ 2006/10/10
CH'KD:D.MORIARTY 2006/10/11
APPR:J.DENNEHY 2006/10/11
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: MCC DATE:
CHECKED BY: D.MORIARTY DATE:
APPROVED BY: J.DENNEHY DATE:
MATERIAL NO.: SEE CHART

TITLE: INSULATION DISPLACEMENT CONNECTOR (2.54)/.100 CENTRES

MOLEX INCORPORATED

DOCUMENT NO.: SDA-7720S-*N*
SHEET NO.: 3 OF 4

SIZE A3