molex
one company > a world of innovation

This document was generated on 03/31/2010

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

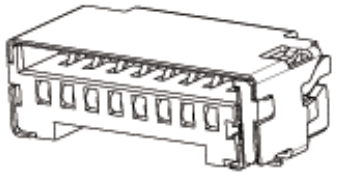
**Part Number:** 0473093551

**Status:** Active

**Description:** 1.10mm (.043") Pitch microSD Card Header, with Detect Switch, Height 3.55mm (.140"), Lead free

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-47309-001 (PDF)
RoHS Certificate of Compliance (PDF)



*Series image - Reference only*

## General

| | |
|---|---|
| Product Family | Memory Card Sockets |
| Series | 47309 |
| Button Type | Push-Pull |
| Comments | <LI>Push-Pull Type |
| Component Type | I/O Header (Card) |
| Product Name | microSD Card, TransFlash |
| Type | N/A |

## Physical

| | |
|---|---|
| Card Detection Switch | Yes |
| Circuits (Loaded) | 8 |
| Circuits (maximum) | 8 |
| Color - Resin | Black |
| Durability (mating cycles max) | 10,000 |
| Ejector Button Side | No Ejector Button Present |
| Entry Angle | 90° Angle |
| Keying to Mating Part | Yes |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Gold |
| Material - Resin | High Temperature Thermoplastic |
| PCB Locator | No |
| PCB Mounting Side | Reverse |
| PCB Retention | Yes |
| Packaging Type | Embossed Tape on Reel |
| Pitch - Mating Interface (in) | 0.043 In |
| Pitch - Mating Interface (mm) | 1.10 mm |
| Pitch - Term. Interface (in) | 0.043 In |
| Pitch - Term. Interface (mm) | 1.10 mm |
| Plating min: Mating (µin) | 29.5 |
| Plating min: Mating (µm) | 0.75 |
| Plating min: Termination (µin) | 2 |
| Plating min: Termination (µm) | 0.05 |
| Ports | 1 |
| Temperature Range - Operating | -40°C to +85°C |
| Termination Interface: Style | Surface Mount |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 0.5A |
| Shielded | Yes |
| Voltage - Maximum | 5V |

## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Product Specification | PS-47309-001 |
| Sales Drawing | SD-47309-001 |

**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.

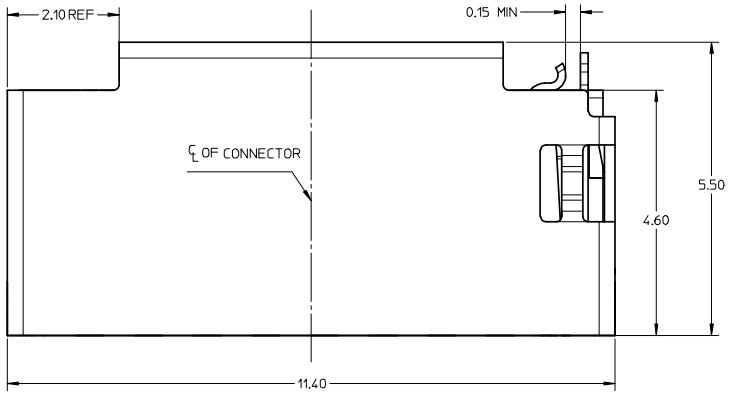
**Search Parts in this Series**
47309Series

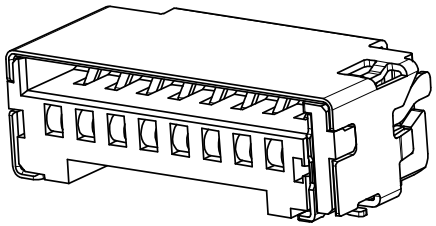
**Mates With**
Standard SIM Card

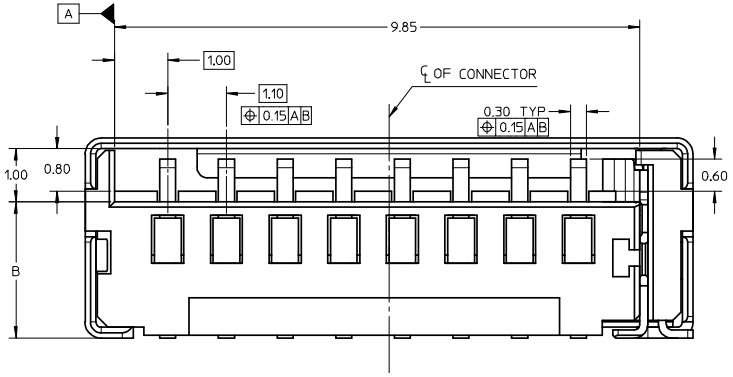
**Use With**
microSD Card

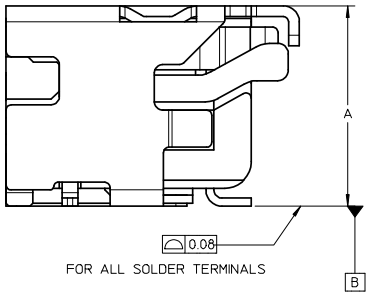
This document was generated on 03/31/2010

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

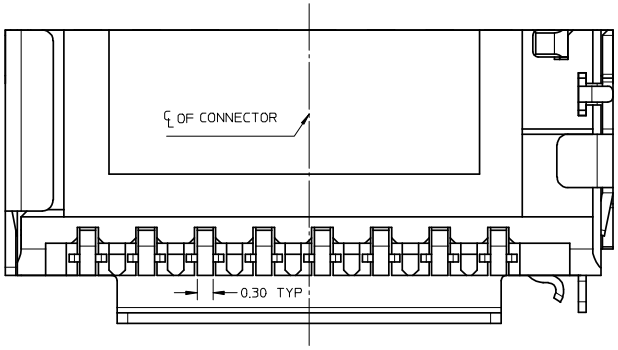





FOR ALL SOLDER TERMINALS




NOTE:
1 MATERIAL:
1-1 HOUSING : LCP, 30% G/F, UL 94V-0, BLACK
1-2 SIGNAL TERMINAL AND DETECT TERMINAL : PHOSPHOR BRONZE
1-3 METAL SHELL : STAINLESS STEEL
2 FINISH:
2-1 SIGNAL TERMINAL : 1.25-6.25 MICRON NICKEL MIN UNDER-PLATED,
0.75-1.25 MICRON GOLD MIN ON CONTACT AREA, GOLD FLASH PLATED ON SOLDER AREA
2-2 METAL SHELL : GOLD FLASH PLATED OVER NICKEL ON SOLDER AREA
2-3 DETECT PIN : 1.25-6.25 MICRON NICKEL MIN UNDER-PLATED
GOLD FLASH PLATED ON CONTACT AREA, TIN PLATED ON SOLDER AREA
3 PRODUCT SPECIFICATION: PS-47309-001.

| PART NUMBER | DIMENSION A | DIMENSION B |
|---|---|---|
| 473093751 | 3.75 | 2.55 |
| 473093551 | 3.55 | 2.35 |
| 473093351 | 3.35 | 2.15 |
| 473092851 | 2.85 | 1.65 |
| 473092651 | 2.65 | 1.45 |

REVISION
EC NO: SHZ0809399
DRWN: LLIU10 2008/02/22
CH'KD: YLZHU02 2008/03/11
APPR: HWWANG 2008/04/02
DESCRIPTION
REV: B

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.15 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 1 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 15:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: X I XU DATE: 2005/12/24
CHECKED BY: Y JWU DATE: 2005/12/24
APPROVED BY: Y JWU DATE: 2005/12/24

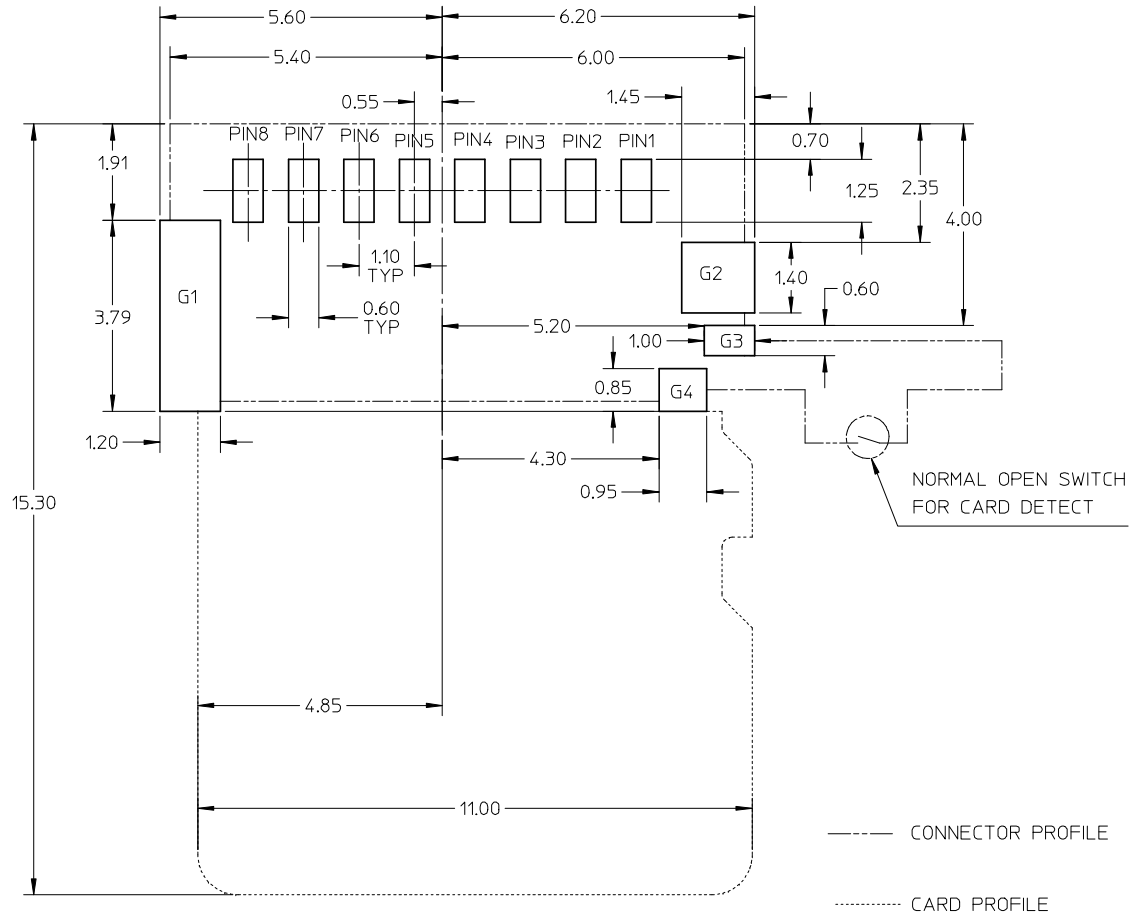
TITLE: TFR HEADER W/DETECT PIN

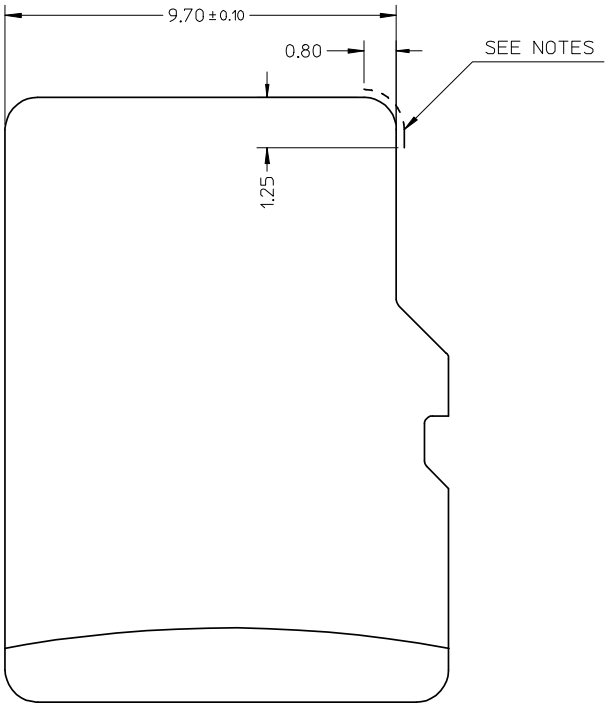
MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-47309-001
SHEET NO.: 1 OF 2

SIZE: A2

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




TRF CARD

| | |
|---|---|
| G4 | DET |
| G3 | POL |
| G2 | GND |
| G1 | GND |
| P8 | DAT1 |
| P7 | DAT0 |
| P6 | VSS |
| P5 | CLK |
| P4 | VDD |
| P3 | CMD |
| P2 | CD/DAT3 |
| P1 | DAT2 |
| PIN NUMBER | PIN NUMBER |

RECOMMENDED PCB LAYOUT

TOLERANCE FOR PCB LAYOUT : ±0.05

NOTES;

NO CONDUCTIVE EXPOSURE TRACE IS ALLOWED ON THE SIDE FACE OF THE CARD AT THIS AREA.

REVISION

| REV | DESCRIPTION | |
|---|---|---|
| B | EC NO: SH2008-0399 | 2008/02/22 |
| | DRWN:LLIU10 | 2008/03/11 |
| | CH'KD:YLZHU02 | |
| | APPR:HWWANG | 2008/04/02 |

QUALITY SYMBOLS

▼=0

▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.15 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 1 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| | |
|---|---|
| DIMENSION STYLE | MM ONLY |
| SCALE | 15:1 |
| DESIGN UNITS | METRIC |
| | THIRD ANGLE PROJECTION |
| DRAWN BY | XIXU |
| DATE | 2005/12/24 |
| CHECKED BY | YJWU |
| DATE | 2005/12/24 |
| APPROVED BY | YJWU |
| DATE | 2005/12/24 |
| TITLE | TFR HEADER W/DETECT PIN |
| | MOLEX INCORPORATED |
| MATERIAL NO. | SEE TABLE |
| DOCUMENT NO. | SD-47309-001 |
| SHEET NO. | 2 OF 2 |
| SIZE | A3 |

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