

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [1050271001](#)
Status: **Active**
Overview: [microsd](#)
Description: 1.10mm(.043"), 0.76mm(.030"), 0.70mm(.028") Pitch microSD Card Header with Detect Switch (Pin 8), Height 1.70mm (.067"), Lead Free

Documents:

[3D Model](#) [Product Specification PS-105027-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	Memory Card Sockets
Series	105027
Button Type	Push-Pull
Comments	Detect Pin located at Pin 8
Component Type	I/O Header (Card)
Overview	microsd
Product Name	microSD Card, TransFlash
Type	N/A

Physical

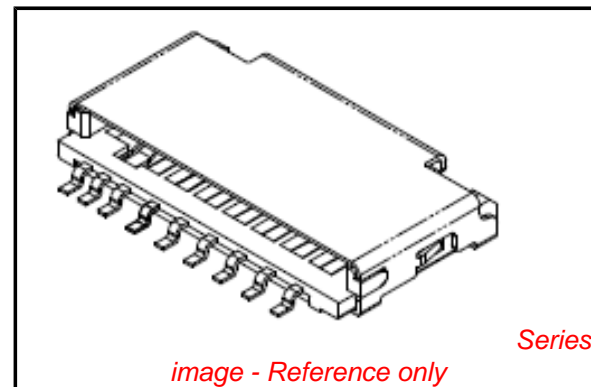
Card Detection Switch	Yes
Circuits (Loaded)	8
Circuits (maximum)	8
Color - Resin	Black
Durability (mating cycles max)	10,000
Ejector Button Side	No Ejector Button Present
Entry Angle	Horizontal
Keying to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
PCB Locator	No
PCB Mounting Side	Normal
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 DC

Material Info

Reference - Drawing Numbers



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
[105027Series](#)

Mates With
 Standard SIM Card

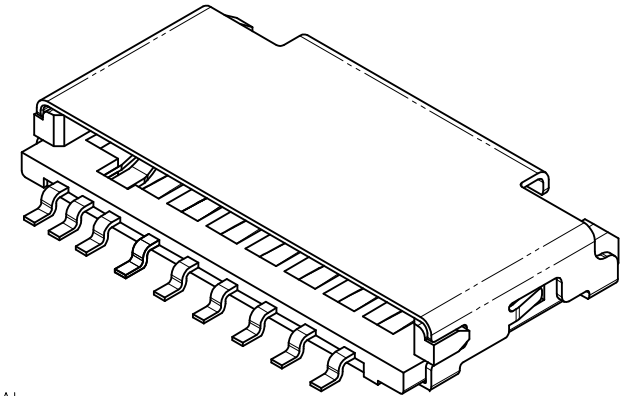
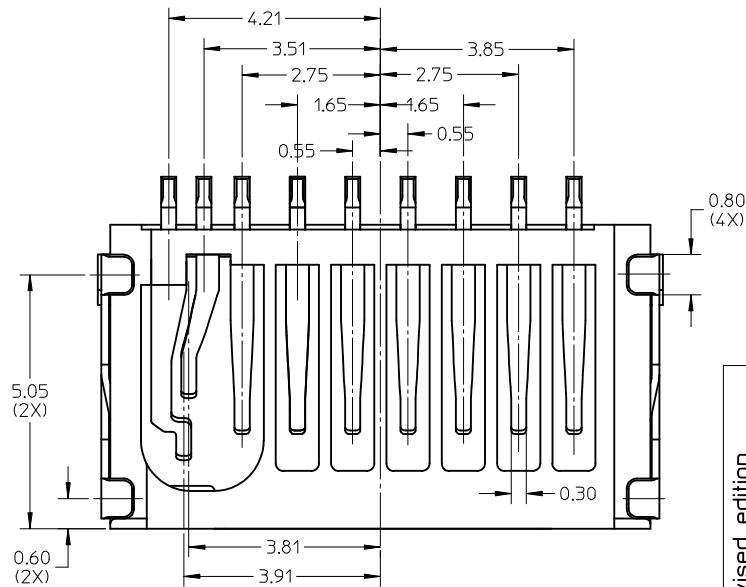
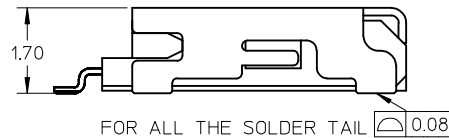
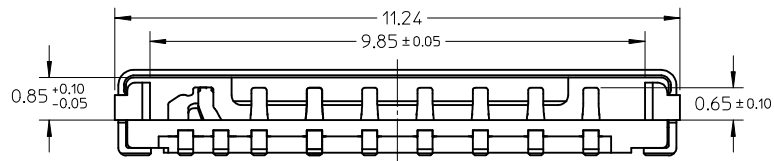
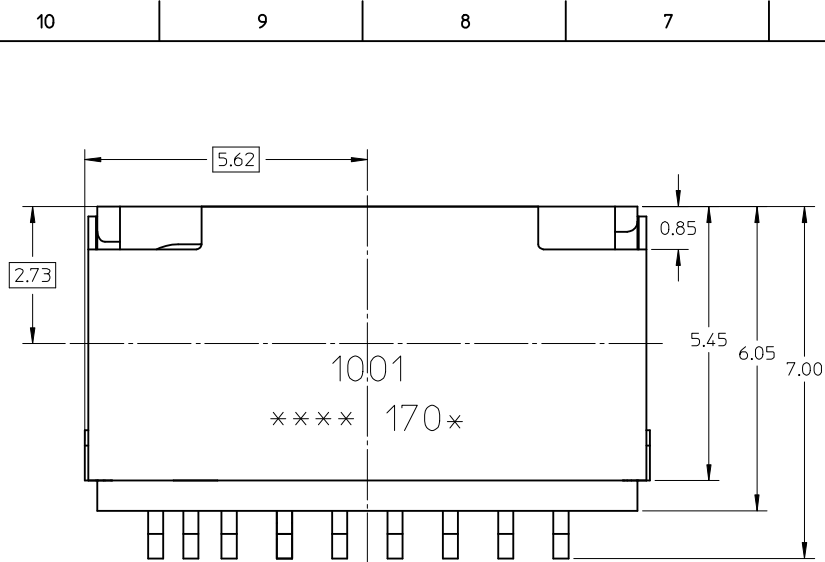
Use With
 microSD Card

Packaging Specification
Product Specification
Sales Drawing
Test Summary

PK-105027-001
PS-105027-001
SD-105027-101
TS-105027-001

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NOTE:

1 MATERIAL:

- 1-1 HOUSING : HIGH TEMPERATURE THERMOPLASTIC,UL 94V-0,BLACK.
- 1-2 SIGNAL TERMINAL AND DETECT TERMINAL : PHOSPHOR BRONZE, THICKNESS: 0.12MM.
- 1-3 METAL SHELL : STAINLESS STEEL, THICKNESS: 0.15MM.

2 FINISH:

- 2-1 SIGNAL TERMINAL : 1.25MICRON MIN NICKEL UNDER-PLATED, 0.75 MICRON MIN GOLD PLATING ON CONTACT AREA,GOLD FLASH PLATED ON SOLDER AREA
- 2-2 METAL SHELL : 1.25 MICRON MIN. NICKEL PLATING OVER ALL, GOLD FLASH PLATED ON SOLDER AREA
- 2-3 DETECT PIN : 1.25 MICRON MIN NICKEL UNDER-PLATED, 0.75 MICRON MIN GOLD PLATED ON CONTACT AREA, GOLD FLASH PLATED ON SOLDER AREA

3 THE MARK "1001"MEANS WITH DETECT PIN TO PIN#8

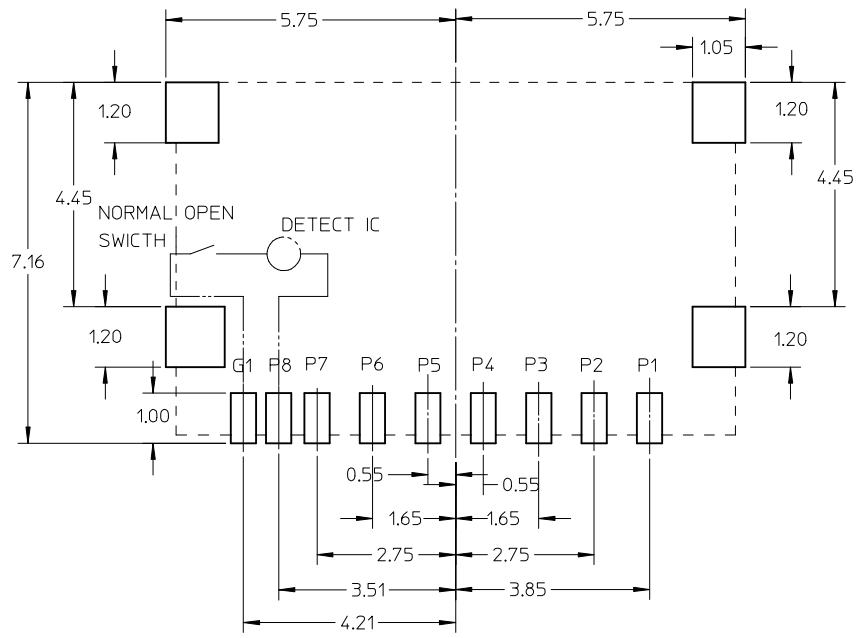
THE MARK "****"MEANS THE DATE CODE.THE FIRST "*"MEANS THE MANUFACTURE YEAR. THE FOLLOW"***" MEANS THE MANUFACTUR DAY. FOR EXAMPLE "2006/01/02" SHOULD BE "6002". THE MARK"170" SHOW THE TOTAL HIGHT 1.70MM OF THE PRODUCT, THE LAST "*"IS SHIFT IDENTIFY CODE"A,B,C".

4 PRODUCT SPECIFICATION: PS-105027-001.

5 PACKAGE SPECIFICATION: PK-105027-001.

6 COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV 2000/53/EC.

revised edition EC NO: SH2009-0498 DRW:LLIU10 CHKD:YLZHU APPR:HWANG	2009/01/16 2009/01/20 DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		$\nabla=0$ $\sphericalangle=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.15 ± --- 1 PLACE ± 0.20 ± --- ANGULAR ± 1 °	MM ONLY	10:1	METRIC		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: LLIU10 DATE: 2008/05/08 CHECKED BY: YLZHU DATE: 2008/12/10 APPROVED BY: HWANG DATE: 2008/12/13	TITLE	1.7H TFR HEADER DETECT PIN WITH PIN8		
				MATERIAL NO. 1050271001	MOLEX INCORPORATED DOCUMENT NO. SD-105027-101	SHEET NO.	1 OF 2	



RECOMMEND PCB LAYOUT
TOLERANCE OF PCB LAYOUT:±0.05

----- CONNECTOR PROFILE

G1	SWITCH1
P8	SWITCH2
P7	D0
P6	VSS
P5	SCLK
P4	VDD
P3	DI
P2	CS
P1	RSV
PIN NUMBER	PIN NAME

see sheet1 EC NO: SH2009-0498 DRW:LLIU10 CHKD:YLZHU APPR:HWANG 2009/01/20	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																	
	$\nabla=0$ $\nabla C=0$	<table border="1"> <tr> <td></td> <td>mm</td> <td>INCH</td> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.15</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.20</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.15	± ---	1 PLACE	± 0.20	± ---	MM ONLY	10:1	METRIC			
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