

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [1050278001](#)
Status: **Active**
Overview: [microsd](#)
Description: 1.10mm(.043"), 0.75mm(.030"), 0.70mm(.028") Pitch microSD Card Header with Detect Switch (VDD), Height 1.70mm (.067"), Lead Free

Documents:

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	Memory Card Sockets
Series	105027
Button Type	Push-Pull
Comments	Ground Pin located between Pin 4 and 5
Component Type	I/O Header (Card)
Overview	microsd
Product Name	microSD Card, TransFlash
Type	N/A

Physical

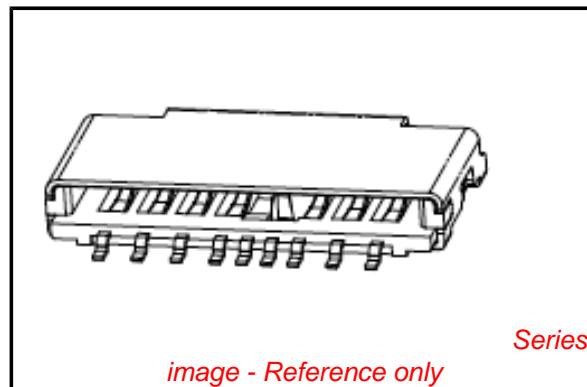
Card Detection Switch	Yes
Circuits (Loaded)	8
Circuits (maximum)	8
Color - Resin	Black
Durability (mating cycles max)	10,000
Ejector Button Side	No Ejector Button Present
Entry Angle	Horizontal
Keying to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating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

Solder Process Data

Duration at Max. Process Temperature (seconds)	2
Lead-free Process Capability	Reflow Capable (SMT only)



EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
 Not Reviewed
**Halogen-Free
Status**

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

Max. Cycles at Max. Process Temperature	2
Process Temperature max. C	255

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-105027-001
Sales Drawing	SD-105027-801

This document was generated on 06/01/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

F

E

D

C

B

A

F

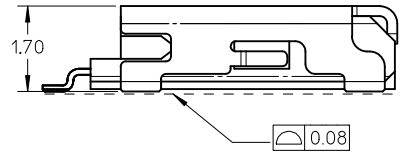
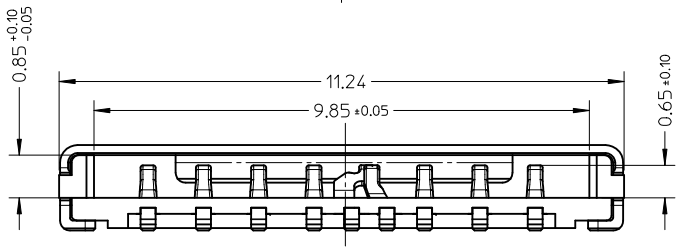
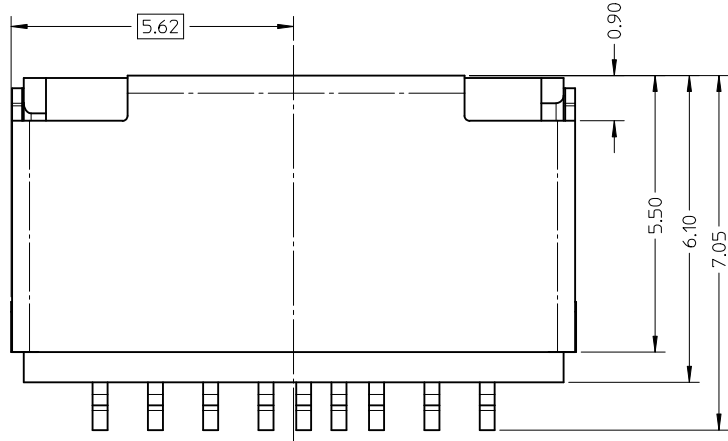
E

D

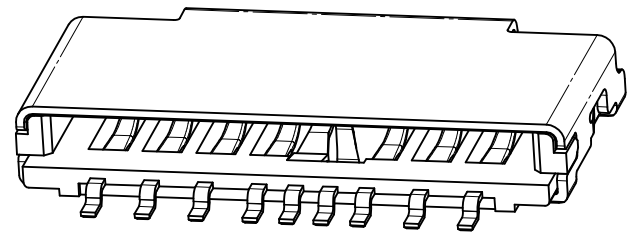
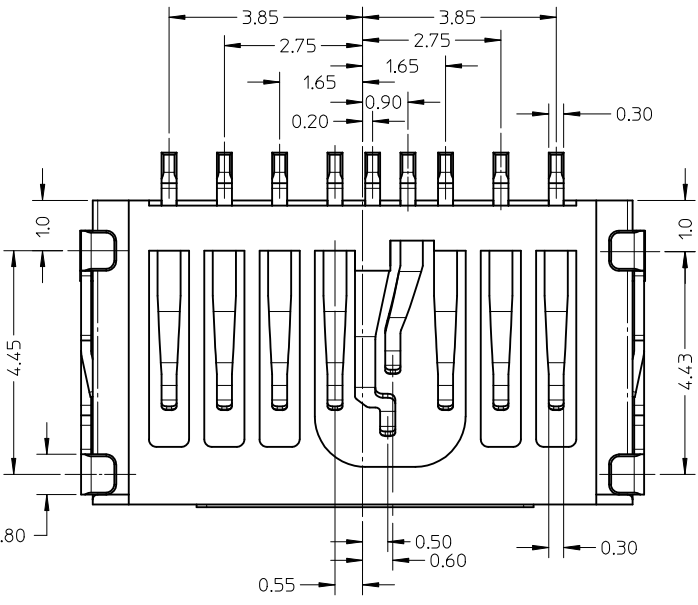
C

B

A



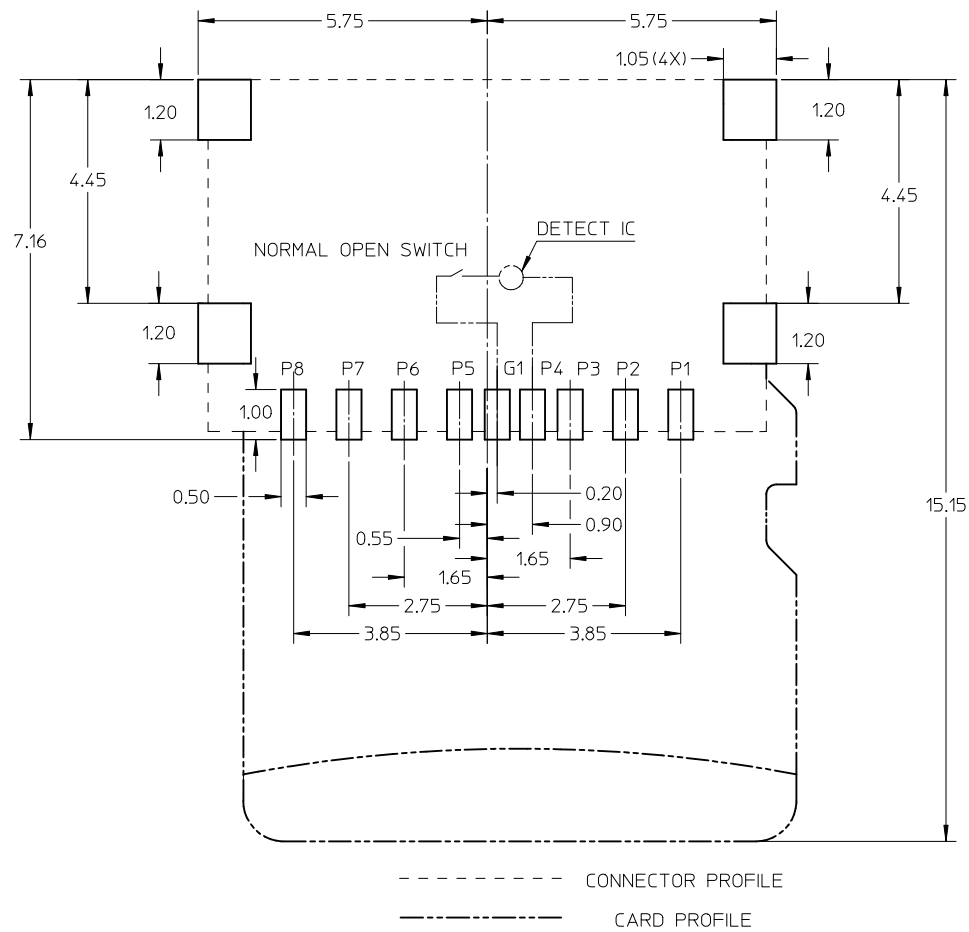
FOR ALL THE SOLDER TERMINATIONS



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: 0.2MM.
- 2 FINISH:
 - 2-1 SIGNAL TERMINAL : 1.25-6.25 MICRON NICKEL UNDER-PLATED, 0.75-1.25 MICRON 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 : 1.25-6.25 MICRON NICKEL UNDER-PLATED, 0.75-1.25 MICRON GOLD PLATED ON CONTACT AREA, GOLD FLASH PLATED ON SOLDER AREA
- 3 PRODUCT SPECIFICATION: PS-105027-001.
- 4 PACKAGE SPECIFICATION: PK-105027-001.
- 5 COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV 2000/53/EC.

RELEASE EC NO: SH2010-0295 DRWN: JLU39 CHK'D: WFDENG APPR: WFDENG 2010/01/18 2009/06/15 2010/02/22	QUALITY SYMBOLS $\nabla_A = 0$ $\nabla_C = 0$ $\nabla_B = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY LIULEI	DATE 2009/06/15	TITLE 1.70H TFR HEADER W/DETECT PIN(VDD)		
		4 PLACES	± ---	± ---	CHECKED BY WFDENG	DATE 2009/06/15	MOLEX INCORPORATED		
		3 PLACES	± ---	± ---	APPROVED BY WFDENG	DATE 2010/02/11			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± 1 °		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



P8	DAT1
P7	DAT0
P6	VSS
P5	CLK
G1	SWITCH
P4	VDD
P3	CMD
P2	CD/DAT3
P1	DAT2
PIN NUMBER	PIN NUMBER

----- CONNECTOR PROFILE
 _____ CARD PROFILE

SEE SHEET1 EC NO: SH2010-0295 DRWN: JLIU39 CHKD: WFDENG APPR: WFDENG	2010/01/18 2009/06/15 2010/02/12	QUALITY SYMBOLS $F_{\Delta} = 0$ $F_{\square} = 0$ $F_{\square} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY	DATE	TITLE				
				4 PLACES	± ---	± ---	LIULEI	2009/06/15	1.70H TFR HEADER W/DETECT PIN(VDD)			
				3 PLACES	± ---	± ---	WFDENG	2009/06/15				
		2 PLACES	± 0.15	± ---	APPROVED BY	DATE	MOLEX INCORPORATED					
		1 PLACE	± 0.20	± ---	WFDENG	2010/02/11						
		ANGULAR ± 1 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
						1050278001		SD-105027-801		2 OF 2		
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						