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Part Number: [0473095251](#)
Status: **Active**
Description: 1.10mm (.043") Pitch microSD Card Header, with Detect Switch, Height 5.25mm (.207"), Lead free

Documents:

- Drawing (PDF)
- Product Specification PS-47309-002 (PDF)
- RoHS Certificate of Compliance (PDF)

General

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

Physical

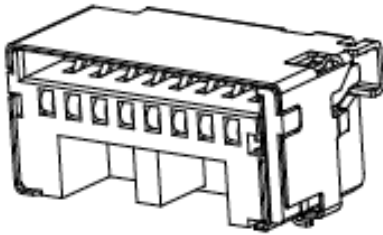
Card Detection Switch	Yes
Circuits (Loaded)	8
Circuits (maximum)	8
Color - Resin	Black
Durability (mating cycles max)	10,000
Ejector Button Side	No Ejector Button Present
Entry Angle	90° Angle
Keying to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating 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

Solder Process Data

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	2



Series
image - Reference 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
[47309Series](#)

Mates With
Standard SIM Card

Use With
microSD Card

Process Temperature max. C

255

Material Info

Reference - Drawing Numbers

Packaging Specification

PK-47309-525

Product Specification

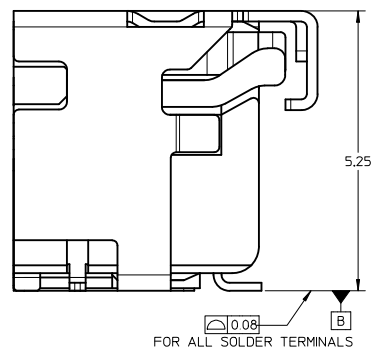
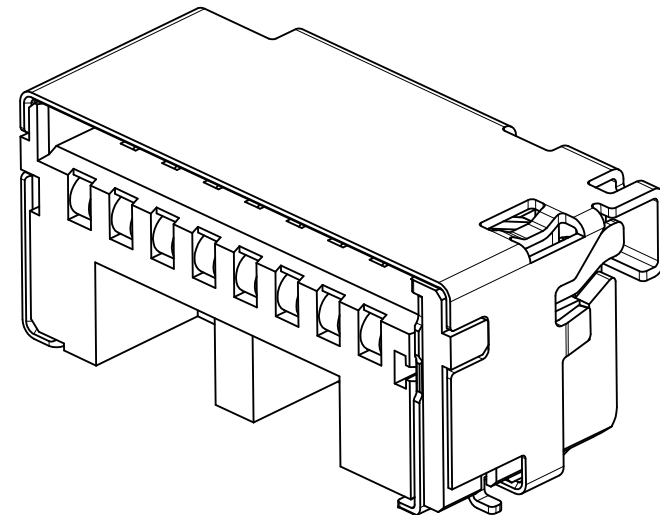
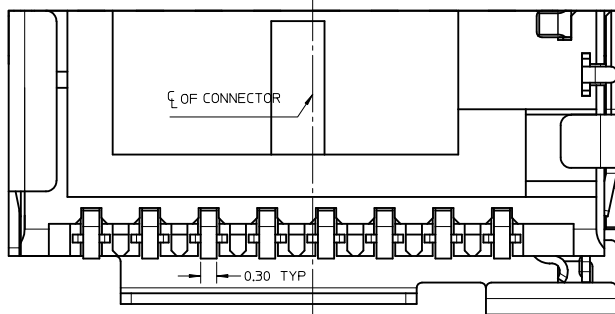
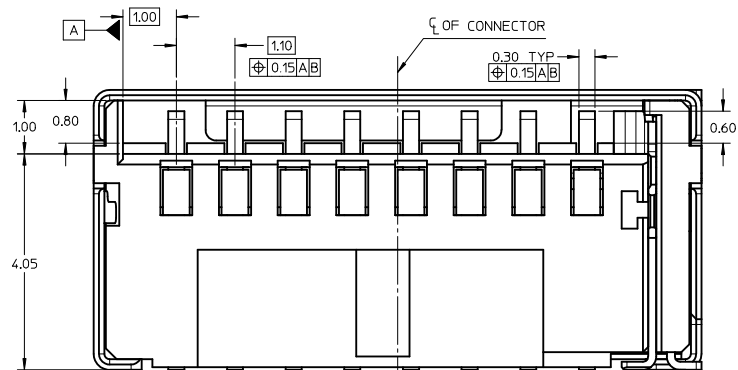
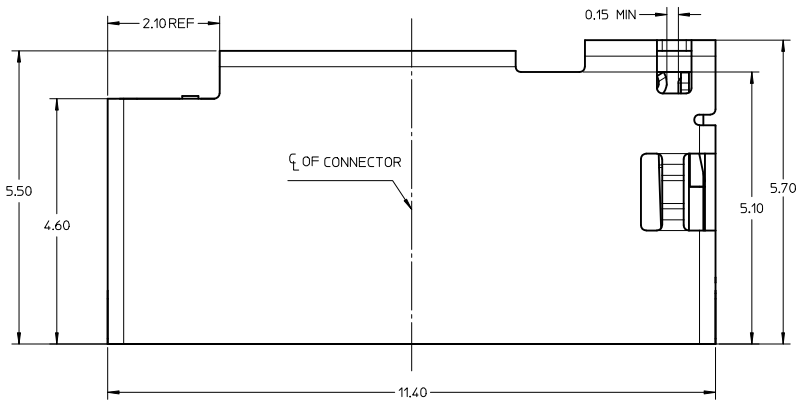
PS-47309-002

Sales Drawing

SD-47309-525

This document was generated on 05/20/2010

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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-47309-002,

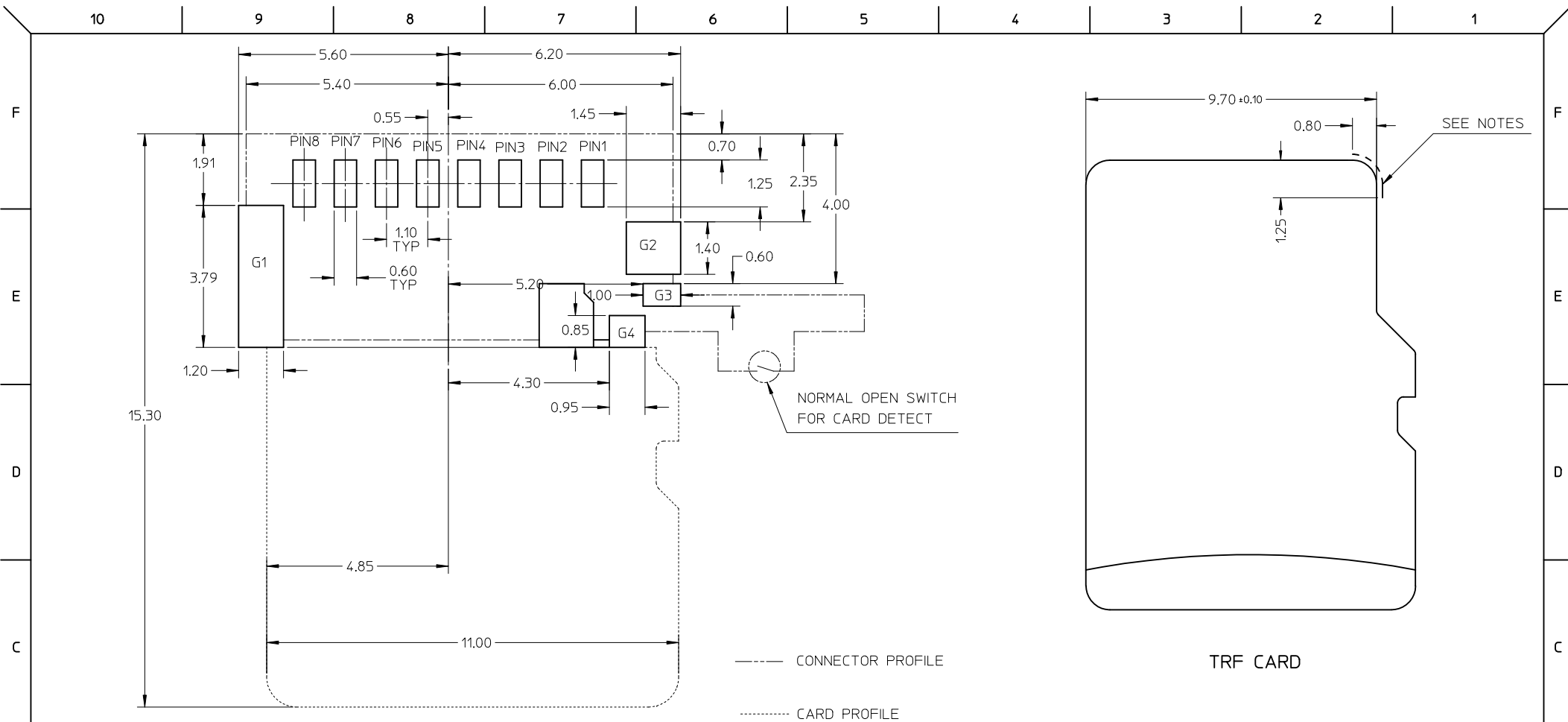
4 PRODUCT PACKAGE: PK-47309-525.

5 FOR LASER PRINT DATE CODE, P/N IS 473091525.

FOR INK PRINT DATE CODE, P/N IS 473095251.

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

RELEASED		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: SH2010-0403		DESCRIPTION		mm		MM ONLY		15:1	METRIC	DRAWN BY	
2010/04/23		2010/04/23		± ---		DATE		2008/11/05		TITLE	
DRWN: JLU39		2010/04/23		± ---		CHECKED BY		DATE		5.25H MICRO-SD HEADER	
CHKD: LANDY		2010/04/23		± 0.15		WFDENG		2009/07/19		W/DETECT PIN	
APPR: WFDENG		2010/06/01		± 0.25		APPROVED BY		DATE		MOLEX INCORPORATED	
				ANGULAR ± 1 °		HWWANG		2009/07/19		SD-47309-525	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		1 OF 2	



RECOMMENDED PCB LAYOUT
TOLERANCE FOR PCB LAYOUT : ±0.05

TRF CARD

NOTES;

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

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

RELEASED EC NO: SH2010-0403 DRWN: JLU39 CHKD: LANDY APPR: WFDENG REV B	DESCRIPTION	QUALITY SYMBOLS F _A =0 F _C =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY LLIU10	DATE 2008/11/05	TITLE 5.25H MICRO-SD HEADER W/DETECT PIN		
			4 PLACES	± ---	± ---	CHECKED BY WFDENG	DATE 2009/07/19			
			3 PLACES	± ---	± ---	APPROVED BY HWWANG	DATE 2009/07/19			
			2 PLACES	± 0.15	± ---	 MOLEX INCORPORATED		DOCUMENT NO. SD-47309-525		SHEET NO. 2 OF 2
			1 PLACE	± 0.25	± ---					
			ANGULAR ± 1 °		MATERIAL NO.					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE NOTES					
					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				