

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

**Part Number:** [0494481411](#)  
**Status:** **Active**  
**Description:** 1.10mm (.043")/1.27mm (.050") Pitch microSD/SIM Card Combo Connector, 8-Pin microSD, Reverse Mount with Detect Switch, and 6-Pin SIM, Normal Mount

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-49448-002 \(PDF\)](#)

**General**

Product Family	Memory Card Sockets
Series	49448
Button Type	Push-Pull, Push-Push
Comments	microSD Card 8 Circuits, SIM Card 6 Circuits, Switch 2 Circuits
Component Type	Card Holder (Host)
Product Name	Combo, microSD Card, SIM
Type	N/A

**Physical**

Card Detection Switch	Open
Circuits (Loaded)	16
Durability (mating cycles max)	10,000
Ejector Button Side	No Ejector Button Present
Entry Angle	Horizontal
Keying to Mating Part	Yes
Material - Metal	Copper, Phosphor Bronze, Stainless Steel
Material - Plating Mating	Gold
Material - Plating Termination	Gold
PC Tail Length (in)	0.039 In, 0.043 In
PC Tail Length (mm)	1.00 mm, 1.10 mm
PCB Locator	No
PCB Mounting Side	Normal
PCB Retention	None
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.043 In, 0.050 In
Pitch - Mating Interface (mm)	1.10 mm, 1.27 mm
Ports	2
Temperature Range - Operating	-25°C to +85°C

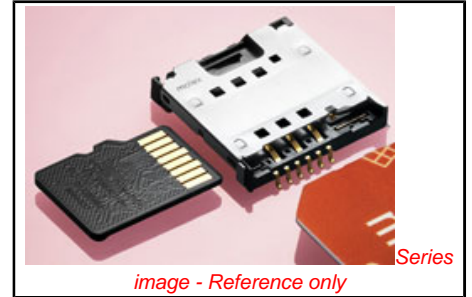
**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification	PK-49448-001
Product Specification	PS-49448-002, RPS-49448-002
Sales Drawing	SD-49448-004



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

**China RoHS**



**Need more information on product environmental compliance?**

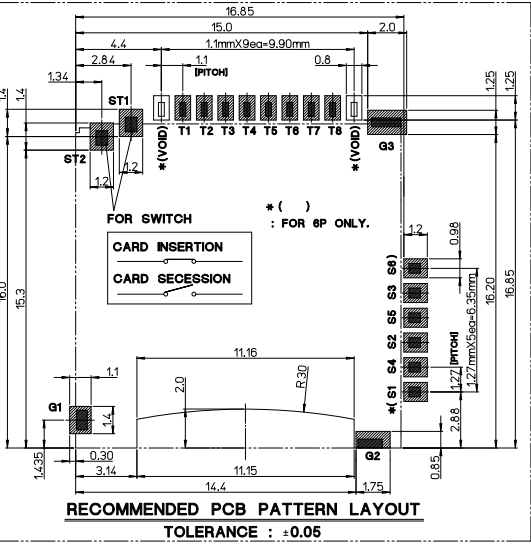
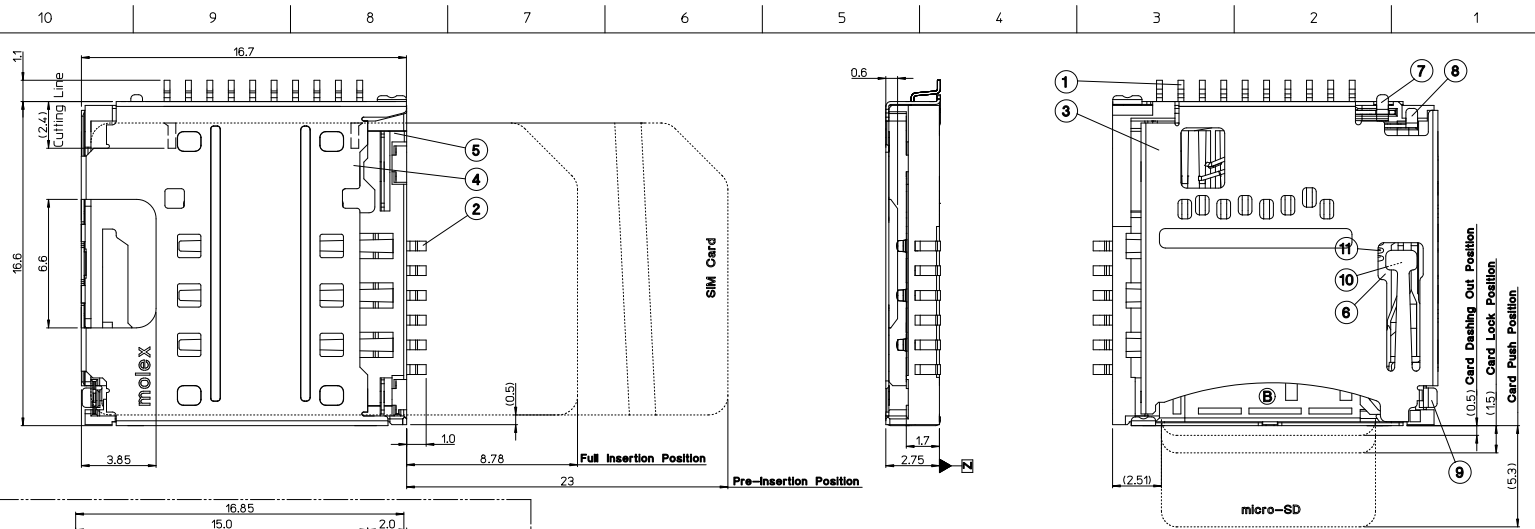
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
[49448Series](#)

**Mates With**  
 microSD Card, SIM Card

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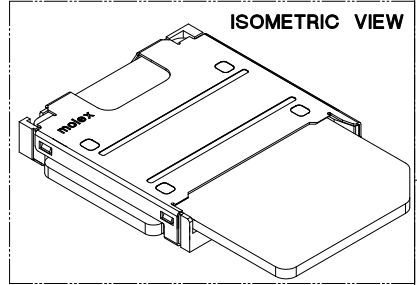


**NOTES**

1. MATERIALS: SEE TABLE 2
2. FINISHES: SEE TABLE 2
3. PRODUCT SPECIFICATION : RPS-49448-001
4. COPLANARITY OF SOLDER TAILS : 0.1mm MAX.  
MISALIGNMENT OF SOLDER TAIL FROM "Z"  
UPPER DIRECTION 0.05 MAX., LOWER DIRECTION 0.1MAX.
5. PACKAGING SPECIFICATION : PK-49448-001

**\* TABLE 1**

8P/6P	494481411	49448-1411
	MATERIAL NO.	ENGINEERING NO.



REVISED EC NO: KOR2010-0043 DRWNS:SHYUK JOO 2009/12/24 CHYK:YSOOK IM 2009/12/28 APPR:YUNSIKKIM 2009/12/29	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																	
		<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± 0.1</td> <td>± 0.004</td> </tr> <tr> <td>3 PLACES</td> <td>± 0.15</td> <td>± 0.006</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.2</td> <td>± 0.008</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.3</td> <td>± 0.012</td> </tr> </table>			mm	INCH	4 PLACES	± 0.1	± 0.004	3 PLACES	± 0.15	± 0.006	2 PLACES	± 0.2	± 0.008	1 PLACE	± 0.3	± 0.012	DRAWN BY IHYOU		DATE 2009/06/01	TITLE M-SD/SIM COMBO SOCKET FOR 8P/6P			
			mm	INCH																					
		4 PLACES	± 0.1	± 0.004																					
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY YSOOK IM		DATE 2009/06/01	MOLEX INCORPORATED																				
		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-49448-004		SHEET NO. 1 OF 3																			

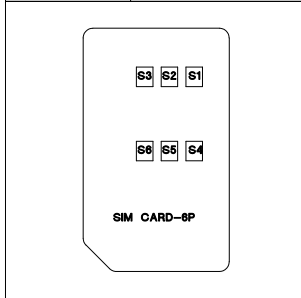
\* TABLE 2 : PARTS-LIST

NO.	DESCRIPTION	ENGINEERING NO.	MATERIALS	FINISHES
1	mSD-CONTACT TERMINAL	49932-8031	PHOS.-BRONZE	Min. 0.2/0.05uM Au over Min. 1.27uM Ni Overall
2	S-CONTACT TERMINAL	49814-8031	BECCU-7ALLOY	Min. 0.2/0.05uM Au over Min. 1.27uM Ni Overall
3	mSD-METAL SHELL	49933-5003	STAINLESS STEEL	Min. 0.7uM Ni Overall
4	S-METAL SHELL	49934-5003	STAINLESS STEEL	Min. 0.7uM Ni Overall
5	HOUSING	49448-1491	LIQUID CRYSTAL POLYMER	UL94V-0
6	HEART CAM	49363-0001	LIQUID CRYSTAL POLYMER	UL94V-0
7	SWITCH TERMINAL 1	49820-8031	PHOS.-BRONZE	Min. 0.1/0.05uM Au over Min. 1.27uM Ni Overall
8	SWITCH TERMINAL 2	49821-8031	PHOS.-BRONZE	Min. 0.1/0.05uM Au over Min. 1.27uM Ni Overall
9	FITTING NAIL	49819-8003	PHOS.-BRONZE	Min. 3.0uM Pure-Sn over Min. 1.27uM Ni Overall
10	PIN ROD	49225-9002	STAINLESS STEEL	
11	SPRING	49362-9001	STAINLESS STEEL	

\* TABLE 3 : REFERENCE

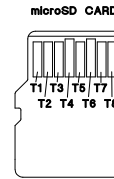
[ SIM CARD-8P PIN-MAP ]

PIN NUMBER	DESCRIPTION
S1	Vcc(Voltage)
S2	Vcc(Reset)
S3	CLK
S4	GND
S5	Vpp
S6	I/O



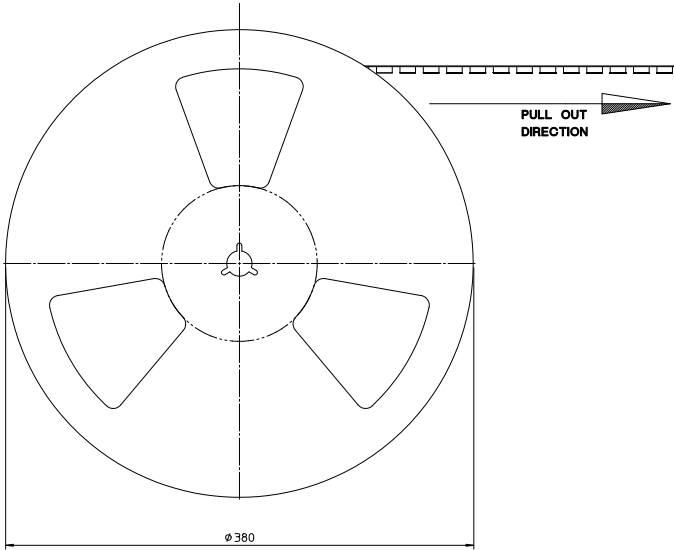
[ microSD CARD PIN-MAP ]

PIN NUMBER	DESCRIPTION
T1	DAT2
T2	CD/DAT3 <sup>2</sup>
T3	CMD
T4	V <sub>DD</sub>
T5	CLK
T6	V <sub>SS</sub> <sup>2</sup>
T7	DAT0
T8	DAT1



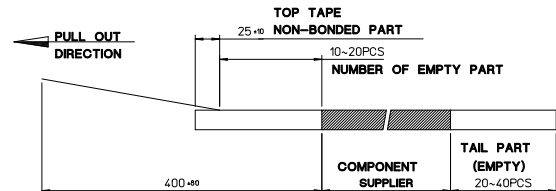
REVISED IEC NO: KOR2010-0043 DRWNS:JHNGHYUK.00 2009/12/24 CHKD:YSOOKIM 2009/12/28 APPR:YONSUKKIM 2009/12/29 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$	mm INCH	MM ONLY	5:1	METRIC	
		4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
		3 PLACES ± --- ± ---	IHYOU 2009/06/01	M-SD/SIM COMBO SOCKET FOR 8P/6P		
	2 PLACES ± 0.1 ± ---	CHECKED BY DATE	MOLEX INCORPORATED			
	1 PLACE ± 0.15 ± ---	SHCHU 2009/06/01	SD-49448-004			
	ANGULAR ± 1°	APPROVED BY DATE	SHEET NO.			
		YSOOKIM 2009/06/01	1 OF 3			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	DOCUMENT NO.			
		SEE TABLE				
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

10 9 8 7 6 5 4 3 2 1

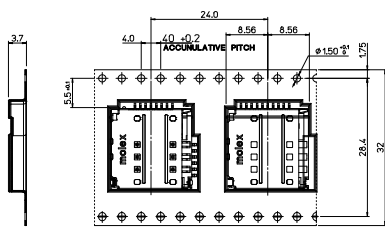
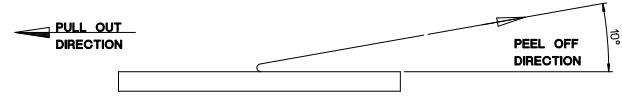


**NOTES**

- 1. QUANTITY OF CONNECTORS : 1,000PCS/REEL
- 2. LEAD LENGTH



- 3. PEELING OFF FORCE OF COVER TAPE : 0.1N-0.59N(10.2GF~60GF)  
(PEELING DIRECTION AS SHOW IN FOLLOW FIG.)  
- PEELING OFF SPEED : 300mm/Min.(Ref.)



35802-0011	35808-1003	49362-8901	49448-1411	494481411	49448-1411	8P/6P
COVER TAPE	REEL	EMBOSSD TAPE	CONNECTOR	MATERIAL NO.	ENG. NO.	CKTS

REVISED IEC NO: KOR2010-0043 DRAWN: SUNGHYUK JOO 2009/12/24 CHYK: YSOOK IM 2009/12/28 APPR: YONSUK IM 2009/12/29	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		$\nabla=0$ $\nabla=0$	mm    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.1 ± --- 1 PLACE ± 0.15 ± --- ANGULAR ± 1°	MM ONLY	5:1	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: IHYOU    DATE: 2009/06/01 CHECKED BY: SHCHU    DATE: 2009/06/01 APPROVED BY: YSOOK IM    DATE: 2009/06/01 MATERIAL NO. SEE TABLE	TITLE: M-SD/SIM COMBO SOCKET FOR 8P/6P MOLEX INCORPORATED DOCUMENT NO. SD-49448-004 SHEET NO. 1 OF 3			
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9 8 7 6 5 4 3 2 1

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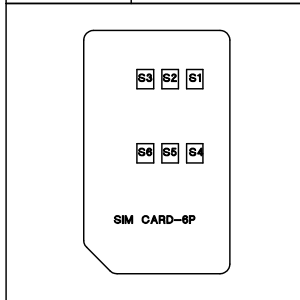
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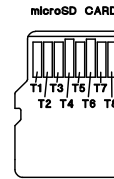
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[ microSD CARD PIN-MAP ]

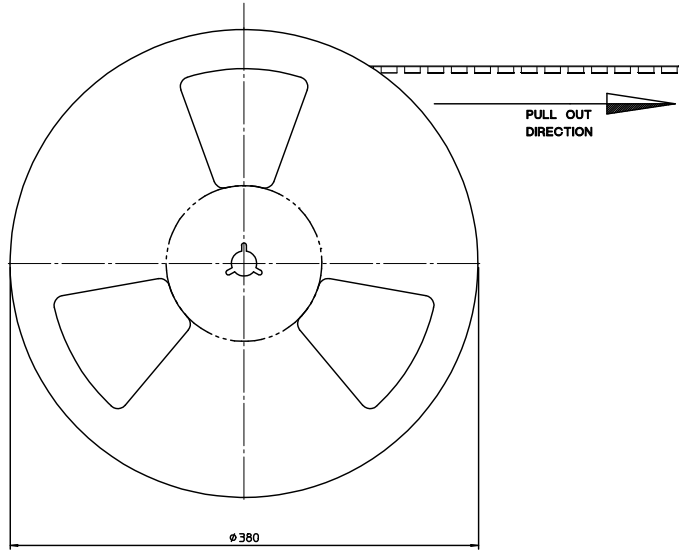
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T6	V <sub>SS</sub> <sup>2</sup>
T7	DAT0
T8	DAT1



NEW REVISED EEC NO: KOR2009-0171 DRWN:HYOU 2009/06/30 CHKD:YSOOKIM 2009/07/02 APPR:YUNSIKKIM 2009/07/02 A	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.15 ± ---	mm INCH	DRAWN BY IHYOU	DATE 2009.06.01	TITLE COMBO MEMORY SOCKET SIM&MICRO SD_6P&8P			
		ANGULAR ± 1°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY SHCHU	DATE 2009.06.01	MOLEX INCORPORATED			
		APPROVED BY YSOOKIM	DATE 2009.06.01	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-49448-004	SHEET NO. 2 OF 3			

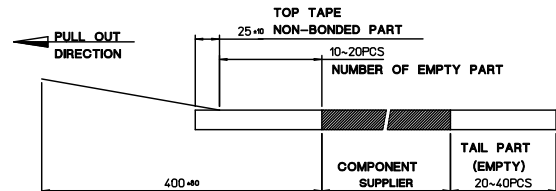
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10 9 8 7 6 5 4 3 2 1

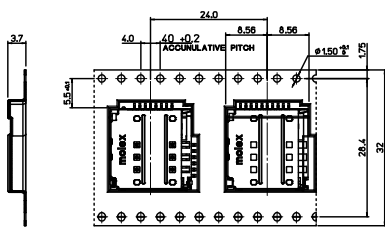
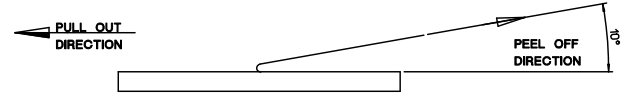


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- 2. LEAD LENGTH



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(PEELING DIRECTION AS SHOW IN FOLLOW FIG.)  
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35902-0011	35908-1003	49382-9901	49448-1411	494481411	49448-1411	8P/8P
COVER TAPE	REEL	EMBOSSD TAPE	CONNECTOR	MATERIAL NO.	ENG. NO.	CKTS

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		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: IYOU CHECKED BY: SHCHU APPROVED BY: YSOOKIM DATE: 2009.06.01 DATE: 2009.06.01 DATE: 2009.06.01	TITLE COMBO MEMORY SOCKET SIM&MICRO SD_6P&8P			
			MATERIAL NO. SEE TABLE SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	MOLEX INCORPORATED DOCUMENT NO. SD-49448-004 SHEET NO. 3 OF 3			

9 8 7 6 5 4 3 2 1