S02

Applications | Mobile phone, Computer, Laptop, Medical equipment, Video recorder, Smart Car



Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric Strength	Temperature Range
0.5A/Pin	100mΩ [Max.]	1,000MΩ [Min.]	AC 500V	-40°C ~ 85°C

Mating Size & Product No.

PINS	PITCH	WIDTH	HEIGHT	LENGHT	CODE
20	2.54	21.50	1.40	30.28	TS254-C20B-C23



Applications | Mobile phone, Computer, Laptop, Medical equipment, Video recorder, Smart Car

Product Specification

	Rated	0.5A/Pin	Operating	-40°C	Storage	-5°C to +40 °C
Potingo	current	0.54/1 111	temperature range	to +85°C 1	temperature range	(With packing)
Ratings	Rated	Max 10V	Operating	10% to 80%	Storage	65%RH
	voltage	AC(RMS) or DC	humidity range	RH 2	humidity range	03%KH

1) Including terminal temperature rise.

2) Storage area is to be free of corrosive gases and dew formation.

Items	Specifications	Conditions		
1. Contact resistance	100mΩ [Max.]	- Open circuit voltage: 20mV. - Test current: 10mA.		
2. Insulation resistance	1,000MΩ [Min.]	- Test voltage: 500V d.c. - Test time: 1 minute ± 5 seconds.		
3. Withstanding voltage	No flashover or dielectric breakdown	AC 500V for 1minute		
4. Tray insert force	1,000gf [Max.]	Insert the tray at a rate of 25±3 mm/min. (actual card used)		
5. Rod withdrawal force	400~1200gf	 Press Rod with a pin. (Speed 25 mm/min) Measure the force at the third time when the actual use card is mounted. 		
6. Durability	 Check whether the SIM card terminal surface is split and the card terminal is short. contact resistance Max 100mΩ Pin removal force (2,000 times) 400~1200gf 	 Attach and detach 500 times. Attach and detach 2,000 times. Reattach the 0.7T SD/SIM card tested in Sample No.2 and attach/detach an additional 3,000 times 		
7. Vibration	Discontinuity : 1.0 microsec. MAX.	 Vibration frequency range : 10~55Hz Total amplitude : 1.5mm Sweep ration : 10-55-10Hz / Approx 1min. Duration : 2h each (6h in total) 		
8. Shock resistance	Discontinuity : 1.0 microsec. MAX.	 Acceleration : 50G (490%) Duration : 11ms Number of shocks : 3 both axial directions, 3 times each, 18 times in total Test voltage : 5V d.c. Test current : 1mA d.c. 		
9. Humidity	- MAX. Change from Initial contact resistance $40m\Omega$ MAX. - Insulation resistance : $100M\Omega$ Min	Temperature : 40°C±2°C Humidity : 90% ~ 95% Duration : 96hr		
10. Temperature cycle	 MAX. Change from Initial contact resistance 40mΩ MAX. Insulation resistance : 100MΩ Min 	- 40±3(°C) : 30 minutes → 85±2(°C) : 30 minutes, 96 cycles		
11. Solder heat resistance	 No have something wrong of push functions. No have deformation and fall off. No have something wrong outward appearance and structure. 	Reflow condition. (Refer to Reflow)		

Materials / Finish

Part	Materials	Finish	UL Regulation
Base A	LCP	Black	UL94V-0
Terminal	Copper Alloy	Au-Pd , Ni plated	-
Cover	Stainless Steel	Au, Ni plated	-
Eject Rod	Stainless Steel	-	-
Lever	Stainless Steel	-	-

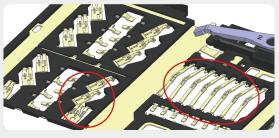
SOCKET

SIM and Memory Card Socket Connector

Applications | Mobile phone, Computer, Laptop, Medical equipment, Video recorder, Smart Car

FEATURES AND ADVANTAGES

- SIM & SD Terminal deformation prevention structure
 - Strengthen contact stability
 - Improving product quality reliability

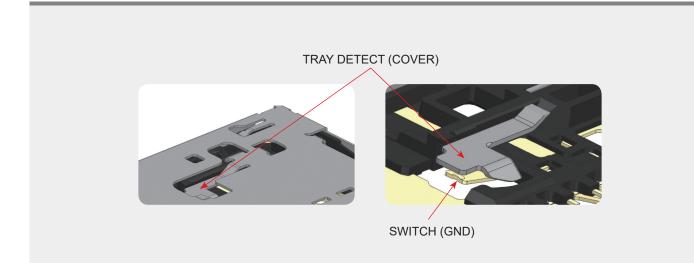


SIM CONTACT

micro SD CONTACT

Switch y-axis ON-OFF structure

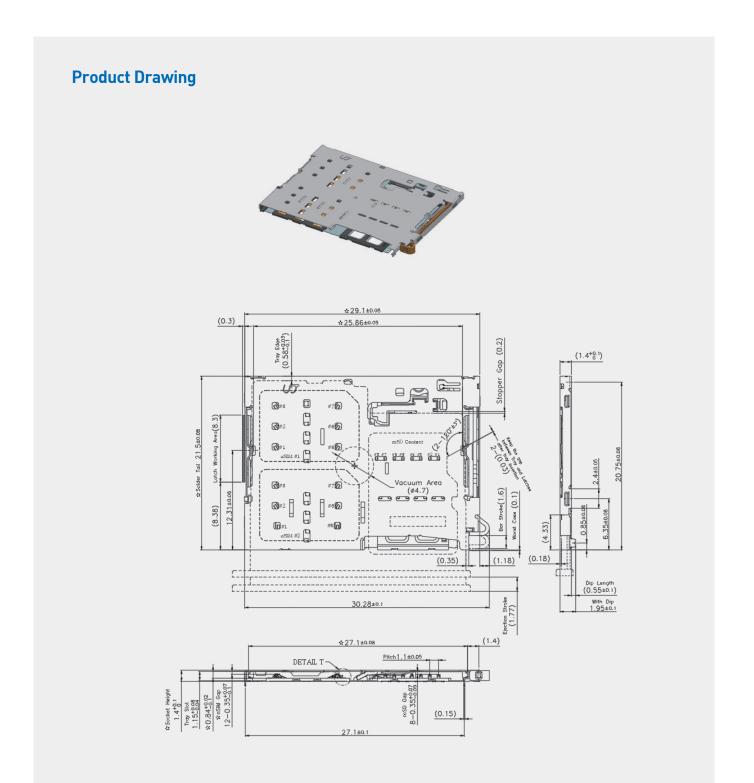
- Normal [CLOSE] \rightarrow Tray inserted [OPEN]
- Strengthen contact stability
- Improving product quality reliability





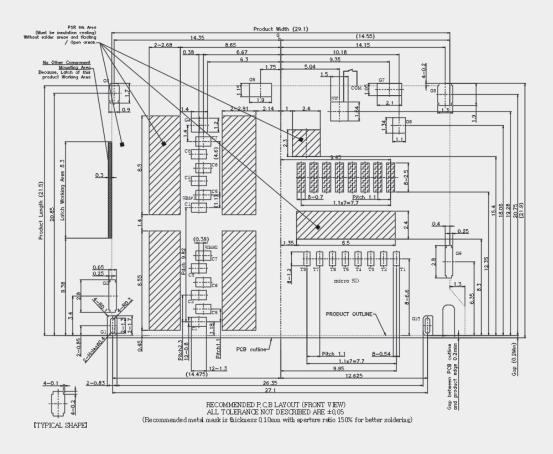


Applications | Mobile phone, Computer, Laptop, Medical equipment, Video recorder, Smart Car



Applications | Mobile phone, Computer, Laptop, Medical equipment, Video recorder, Smart Car

Recommended PCB Dimensions



Not connect (Feel cover laver/Open) Tips of micro-SD contact terminals are always sliding on PCB when mSD card inserted. So, it is possible to make scratches on the PCB.

Hatching area; are pattern prohibition (No Via / No Trace) Because of contact terminals are touchable

Pin No.	Description	Fin No.		Description
C1	VCC (Supply V)	Tl		DAT2
C2	RST (Reset)	T2		CD/DAT8:
C8	CLK (Clock)	T8		CMD
(C4)	(None)	T4		VDD
C6	GND (Ground)	T6		CLK
C8	VPP (Program V)	T8		VSS (GND)
C7	I/O	Τ7	T7 DA	
(CS)	(None)	TS	TS DAT1	
nis product has no C4,C8 ntaet terminal. 제품은 C4,C8 결곡만자가 없음.)		G1-G10	GROUND	
		S/₩	TRAY DETECTION SWIT	
		COM	AL	L OF GROUND (G1~G10

* There is only tray insertion / removal detection switch physically. (물리적으로 트레이 삽입/ 받거 광지 스위치만 있음)

(end 프로그레이 집 Eric (프레이 감지 후) Therefore, After tray detection. (트레이 감지 후) This product is necessary to detect the SIM or SD card separately in software. (소프트웨어에서 SIM 또는 SD카드를 별도로 감지하기 위해 필요한 제품임.)

