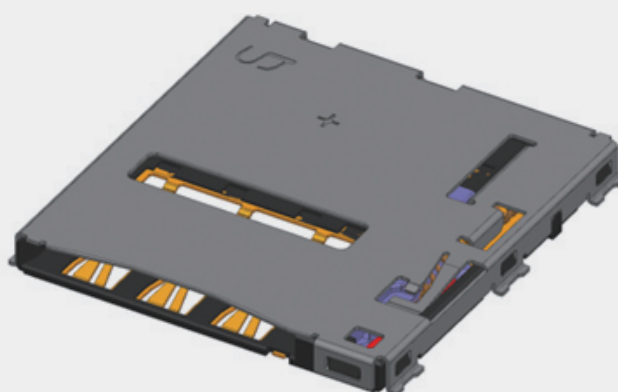


# SIM and Memory Card Socket Connector



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



- ▶ NANO SIM Card Socket
- ▶ Push In – Push Out (Simple Installation)
- ▶ Application structure Card Detect Switch

## Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric Strength	Temperature Range
0.5A/Pin	CONTACT 150mΩ [Max.] DETECT 150mΩ [Max.]	1,000MΩ [Min.]	AC 500V	-40°C ~ 85°C

## Mating Size & Product No.

PINS	PITCH	WIDTH	HEIGHT	LENGHT	CODE
6	2.54	13.65	1.23	13.25	NS254-C07B-C12

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## Product Specification

Ratings	Rated current	0.5A/Pin	Operating temperature range	-40°C to +85°C 1	Storage temperature range	-5°C to +40 °C (With packing)
	Rated voltage	AC 125V	Operating humidity range	10% to 80% RH 2	Storage humidity range	65%RH

1) Including terminal temperature rise.

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

Items	Specifications	Conditions
1. Contact resistance	CONTACT - 150mΩ [Max.] DETECT - 150mΩ [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. Card Insertion force & Withdrawal force	Insert : 1.0 kgf Max Withdrawal : 1.0 kgf Max	- Push-pull gauge at 25±3m/min speed.
5. Vibration	- MAX. Change from Initial contact resistance 50mΩ MAX.	- Vibration frequency range : 10-55-10Hz - Total amplitude : 1.52mm - Sweep time : 30sec - Duration : 2h each (6h in total)
6. Durability	- MAX. Change from Initial contact resistance 50mΩ MAX.	- Attach and detach 5,000 times.
7. Temperature and Humidity cycle	- MAX. Change from Initial contact resistance 50mΩ MAX. - Insulation resistance : 100MΩ Min	- 40±3(°C) : 30 minutes → 85±2(°C) : 30 minutes, 96 cycles
8. Humidity	- MAX. Change from Initial contact resistance 50mΩ MAX. - Insulation resistance : 100MΩ Min	- Temperature : 40°C±2°C - Relative humidity : 90% RH to 95% RH - Duration : 96hr
9. Salt mist	- MAX. Change from Initial contact resistance 50mΩ MAX. - Insulation resistance : 100MΩ Min	- Salt water concentration : 5±1% Weight ratio - Temperature : 35°C±2°C - Duration : 72h
10. Heat	- MAX. Change from Initial contact resistance 50mΩ MAX. - Insulation resistance : 100MΩ Min	- Temperature : 105±2°Ctio - Duration : 96h

## Materials / Finish

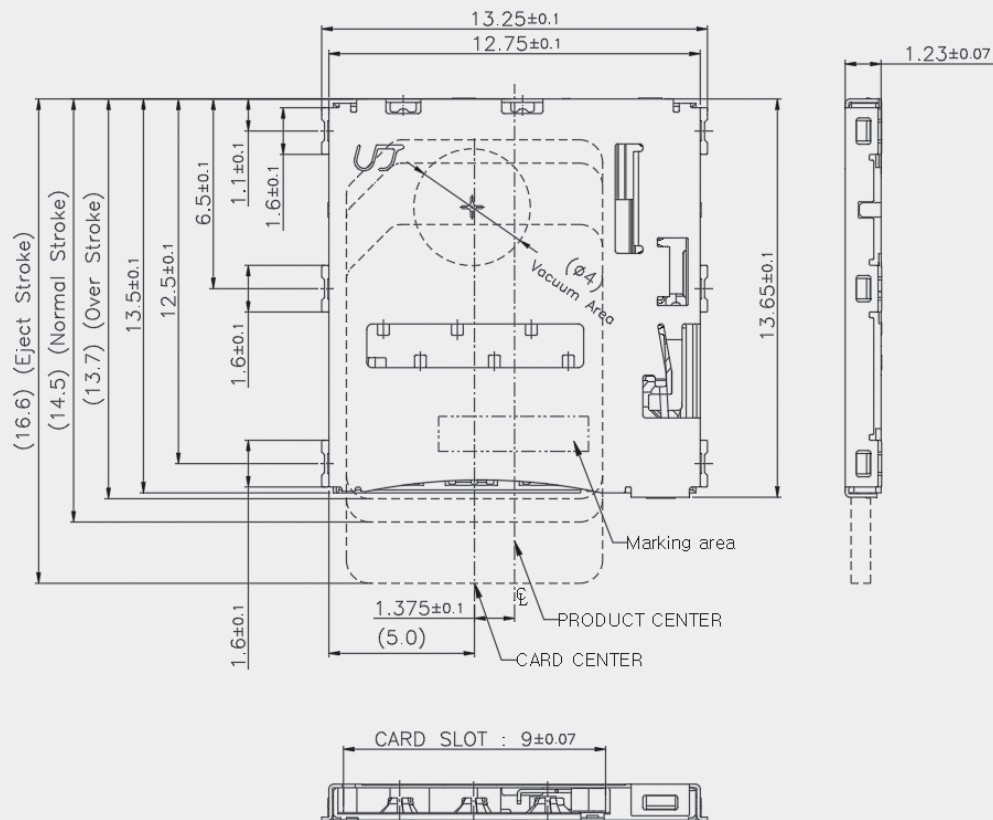
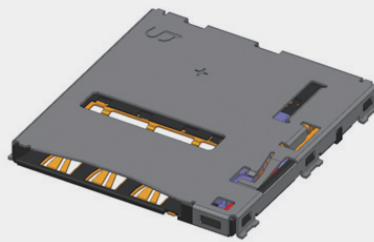
Part	Materials	Finish	UL Regulation
Base	LCP	Black	UL94V-0
Terminal	Copper Alloy	Au, Ni plated	-
Cover	Nickel silver	Au, Ni plated	-
Switch A	Copper Alloy	Au, Ni plated	-
Switch B	Copper Alloy	Au, Ni plated	-
Ejector	Stainless Steel	-	-
CAM Stick	Stainless Steel	-	-
Spring	Stainless Steel	-	-

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## Product Drawing

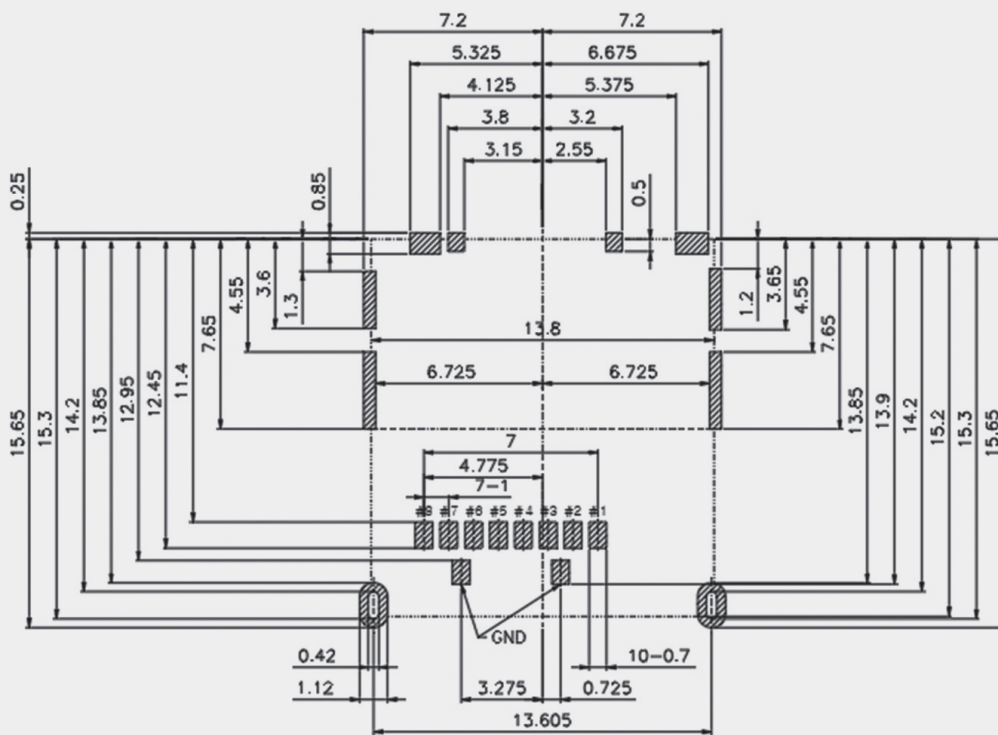


# SIM and Memory Card Socket Connector

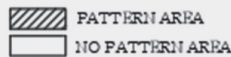


**Applications** | Mobile phone, Computer, Laptop, Medical equipment, Video recorder, Smart Car

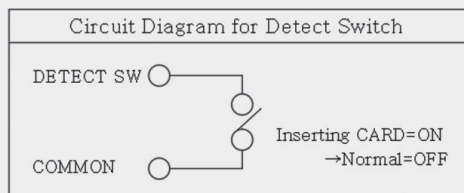
## Recommended PCB Dimensions



**Recommended PCB LAYOUT**  
TOLERANCES UNLESS OTHERWISE SPEC. ±0.05



### [Circuit Diagram for Detect Switch]



### [Pin Assignments]

PIN	SD Mode
#1	DAT2
#2	DAT3/CD
#3	CMD
#4	VDD
#5	CLK
#6	VSS
#7	DAT0
#8	DAT1