# (Display) LCD 0.5 Pitch 3.85H

Applications | Mobile device, Display, PC



- Low Voltage Differential Signaling(LVDS) connector
- Terminal deformation prevention structure
- Reverse insertion prevention structure
- Damage prevention structure by a cover

## **Code & Specification**

#### Mating Size / Unit : (mm)

Product Code	Pitch (mm)	No. of Contacts	Width (mm)	Height (mm)	Length	Remark
IS050-C41B-C39-S	0.50	41	3.75	3.85	32.85	-
IS050-C51B-C39-S	0.50	51	3.75	3.85	37.85	-

Current Rating	Contact Resistance	Insulation Resistance	Withstanding Voltage	Temperature Range
AWG #30, #32, #36 0.8A/Pin	30mΩ [Max.]	100MΩ [Min.]	AC 250V	-25°C ~ 85°C

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## **Product Specification**

	Rated	AWG #30, #32,	Operating	-25°C	Storage	15°C to 35°C	
Detinge	current	#36 0.8A/Pin	temperature range	to +85°C 1	temperature range	(With packing)	
Raunys	Rated		Operating	25% to 95%	Storage		
	voltage	AC, DC 200V	humidity range	RH 2	humidity range	05%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	$30m\Omega$ Max. / contact	- Test current : 10mA. - Open voltage : 20mV max.
2. Insulation resistance	100MΩ Min.	Test voltage : DC 100V 1min±5sec (Based upon MIL-STD-202 Method302 condition B)
3. Withstanding voltage	No flashover or dielectric breakdown	<ul> <li>Test voltage : AC 500V</li> <li>Electrification time : 1 min/5 sec (Based upon MIL-STD-202 Method 301)</li> </ul>
4. Insertion Force	10.2kgf [Max.]	Insert the wafer at a rate of 25±3 mm/min.
5. Withdrawal Force	After 10 test , 0.52kgf [Min.]	Withdraw the wafer at a rate of 25±3 mm/min.
6. Durability	Contact resistance : $80m\Omega$ Max	30 cycle of total insertion and withdrawal operation.
7. Vibration	Contact resistance : $80m\Omega$ 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 current : 100mA - Detection level of text current disconnection : 1μs
9. Humidity	- Contact resistance : $80m\Omega$ Max - Insulation resistance : $50M\Omega$ Min	Temperature : 40°C±2°C Humidity : 90% RH to 95% RH Duration : 96hr
10. Temperature cycle	- Contact resistance : $80m\Omega$ Max - Insulation resistance : $50M\Omega$ Min	- 40±3(°C) : 30 minutes → +85±2(°C) : 30 minutes, 96 cycles
11. Solder heat resistance	<ul> <li>No have something wrong of push functions.</li> <li>No have deformation and fall off.</li> <li>No have something wrong outward appearance and structure.</li> </ul>	Reflow condition. (Refer to Reflow)

## Materials / Finish

Part	Materials	Finish	UL Regulation
Base	LCP	Black	UL94V-0
Terminal	Phosphor Bronze	Au, Ni plated	-
Cover	Stainless Steel	Sn, Ni plated	-

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#### Mating Size / Unit : (mm)

Product No.	No. of Contacts	А	В	С	D
IS050-C41B-C39-S	41	26.00	20.00	30.35	32.85
IS050-C51B-C39-S	51	31.00	25.00	35.35	37.85

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#### Recommended PCB, Metal Mask Layout



#### Mating Size / Unit : (mm)

Product No.	No. of Contacts	А	В	С	D
IS050-C41B-C39-S	41	26.20	52.40	56.00	57.40
IS050-C51B-C39-S	51	26.20	52.40	56.00	57.40