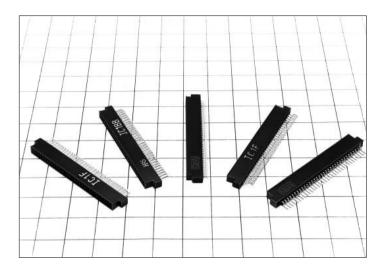


# PC Card Socket Connector Complies with PC card Standard

# **IC1** Series



#### **■**Features

### 1. Compliant with PC Card Standards

Polarized entry prevents wrong insertion into a corresponding connector. And sequential contact engagement prevents electorostatic discharge, avoiding possible damage to sensitive board circuits.

### 2. Suited to Automatic Mounting

Packaged for a board placement with aoutmated equipment.

#### 3. Lead Offset

Available with several board termination levels, to allow use of different height board components.

In relation to the center line of connector, 0.2 mm, +0.3 mm, +0.55 mm, +0.9 mm and terminations on board center are available.

# **■**Product Specifications

		Current rating	0.5 A	Operating temperature	-55°C to +85°C (Note 1)	Storage temperature	-40°C to +70°C (Note 2)
Ratings	Valta as ration	405 \/ 40	Operating humidity	95% R.H. max.	Ctorogo humiditu	400/ to 700/ (Note 0)	
		Voltage rating	125 V AC		(No condensation)	Storage humidity	40% to 70% (Note 2)

Item	Specification	Conditions	
1. Insulation resistance	1000MΩ min.	500 V DC	
2. Withstanding voltage	No flashover or insulation breakdown.	500 V AC / 1 minute	
3. Contact resistance	40 mΩ max. (initial value) (Note 3)	1 mA	
4. Vibration	No electrical discontinuity of 100ns or more	Frequency: 10 to 2000 Hz, single amplitude of 1.52 mm or acceleration of 147 m/s²(peak), 4 hours in each of the 3 directions.	
5. Humidity (Steady state)	Insulation resistance: 100 MΩ min.	96 hours at temperature of 40°C and humidity of 90% to 95%	
6. Temperature cycle	No damage, cracks, or parts looseness.	-55°C, 30 min →15 to 30°C, within 5 min→85°C, 30 min →15 to 35°C, within 5 min, for 5 cycles	
7. Durability (Insertion/withdrawal)	Change of contact resistance from the start should be 20 m $\Omega$ max.	10000 cycles at 400 to 600 cycles per hour	
8. Resistance to	No deformation of components	Reflow: At the recommended temperature profile	
soldering heat	affecting performance.	Manual soldering: 300℃ for 3 seconds	

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non- conducting condition of installed connectors in storage, shipment or during transportation.

## **■**Materials

Part	Material	Finish	Remarks
Insulator	PPS	Color : Black	UL94V-0
Contact	IC1K,IC1HA:Phosphor bronze Others:Beryllium copper	Contact Area: gold plating Lead Area: solder plating	

## **■**Ordering Information

$$\frac{\text{IC1}}{0} \ \frac{\text{F}}{0} - \frac{\text{*}}{0} \ \frac{\text{R}}{0} \ \frac{\text{D}}{0} - \frac{1.27}{0} \ \frac{\text{SH}}{0}$$

Series name: IC1 BB: Compliant with PC Card Standards Connector thickness: 2.8mm F: Compliant with PC Card Standards Connector thickness: 2.7mm HA: Compliant with PC Card Standards Connector thickness: 2.7mm Lead offset type K: Compliant with PC Card Standards Connector thickness: 2.7mm Suited to automatic mounting Contacts: 40, 68 4 R: Card Connector 6 D: 2-row arrangement Contact pitch: 1.27mm Mounting method SH: Two sided board terminations SHA: Two sided board terminations SF: Single surface mount type. SFA: Single surface mount type. SFB: Single surface mount type.

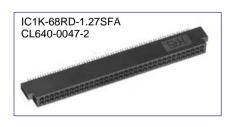
## ■68 Contacts Card Connectors

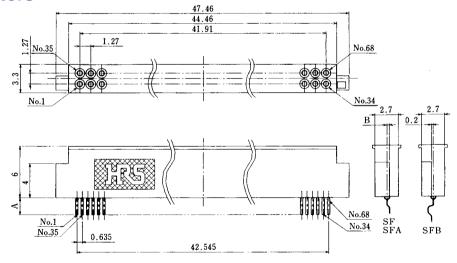
●Connector thickness: 2.7mm

Lead offset type

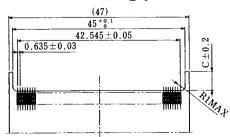
Suited to automatic mounting

Single surface mount type





# **●**PCB mounting pattern



Unit:mm

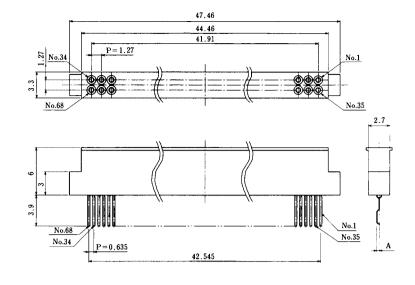
Part Number	CL No.	Α	В	С
IC1K-68RD-1.27SF	640-0046-0	2	0.3	5
IC1K-68RD-1.27SFA	640-0047-2	2	0.9	5
IC1K-68RD-1.27SFB	640-0048-5	3		6

## **■68 Contacts Connector**

- ●Connector thickness:2.7mm
- Single surface mount type

Compliant with PC Card Standard





Unit:mm

Part Number	CL No.	Α
IC1F-68RD-1.27SF	640-0035-3	0.3
IC1F-68RD-1.27SFA	640-0040-3	0.854

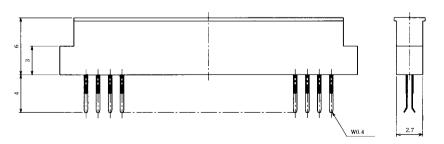
## **■68 Contacts Connector**

- ●Connector thickness:2.7mm
- Two sided board termination on the center line

Compliant with PC Card Standard







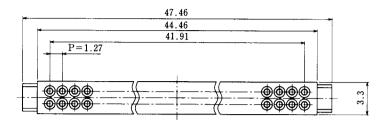
• Recommended board thickness: 0.4 to 0.5mm

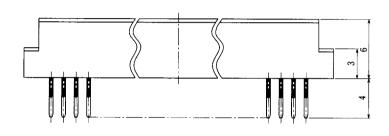
## ■68 Contacts Connector

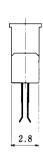
- ■Connector thickness:2.8mm
- ●Two sided board termination on the center line

#### Compliant with PC Card Standard









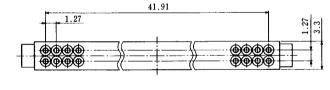
· Recommended board thickness: 0.4 to 0.5mm

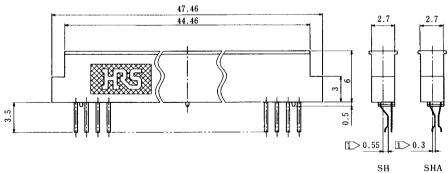
## ■68 Contacts Connector

- ■Connector thickness:2.7mm
- Two sided board terminations
- Two Mounting levels of board terminations

#### Compliant with PC Card Standard







• Recommended board thickness: 0.4 to 0.5mm

1 For 0.45mm board thickness

Part Number	CL No.
IC1HA-68RD-1.27SH	640-0044-4
IC1HA-68RD-1.27SHA	640-0045-7