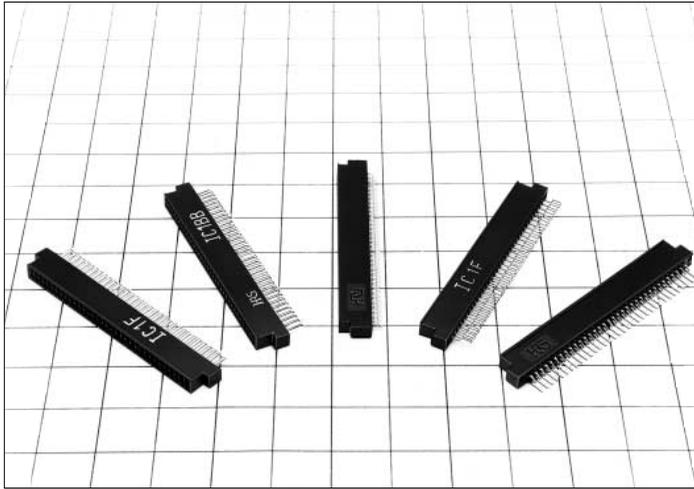


# PC Card Socket Connector Complies with PC card Standard

## IC1 Series



### ■ Features

#### 1. Compliant with PC Card Standards

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

#### 2. Suited to Automatic Mounting

Packaged for a board placement with automated 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

|         |                |          |                       |                                    |                     |                         |
|---------|----------------|----------|-----------------------|------------------------------------|---------------------|-------------------------|
| Ratings | Current rating | 0.5 A    | Operating temperature | -55°C to +85°C (Note 1)            | Storage temperature | -40°C to +70°C (Note 2) |
|         | Voltage rating | 125 V AC | Operating humidity    | 95% R.H. max.<br>(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/s <sup>2</sup> (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 mΩ max. | 10000 cycles at 400 to 600 cycles per hour   |
| 8. Resistance to soldering heat      | No deformation of components affecting performance.              | Reflow: At the recommended temperature profile   |
|                                      |  | Manual soldering: 300°C 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<br>Others:Beryllium copper | Contact Area : gold plating<br>Lead Area : solder plating | —       |

## Ordering Information

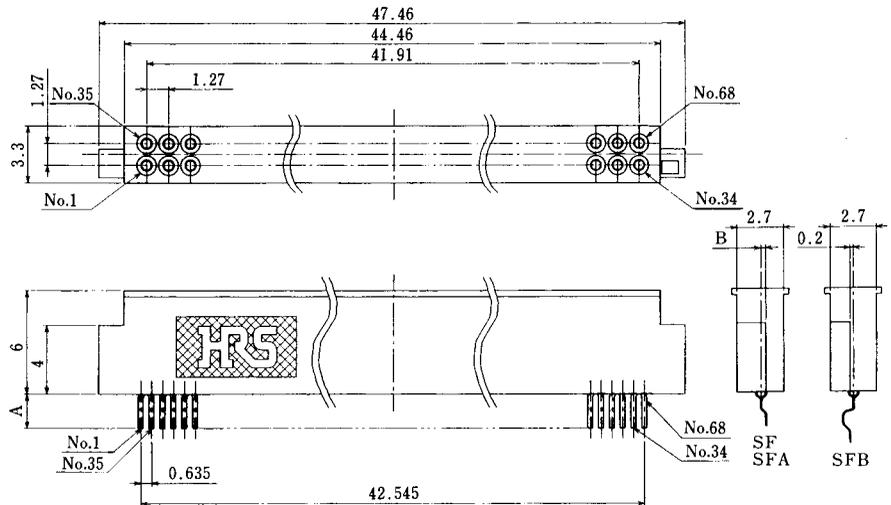
**IC1 F - \* R D - 1.27 SH**

① ② ③ ④ ⑤ ⑥ ⑦

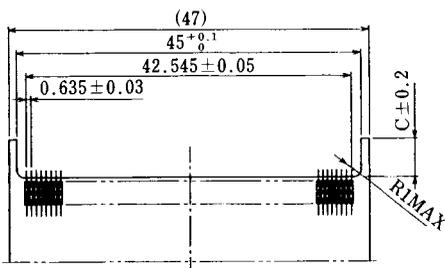
|   |                                      |                            |
|---|--------------------------------------|----------------------------|
| ① | Series name : IC1                    |                            |
| ② | BB: Compliant with PC Card Standards | Connector thickness: 2.8mm |
|   | 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         |                            |
| ③ | Contacts: 40, 68                     |                            |
| ④ | R: Card Connector                    |                            |
| ⑤ | D: 2-row arrangement                 |                            |
| ⑥ | Contact pitch: 1.27mm                |                            |
| ⑦ | 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

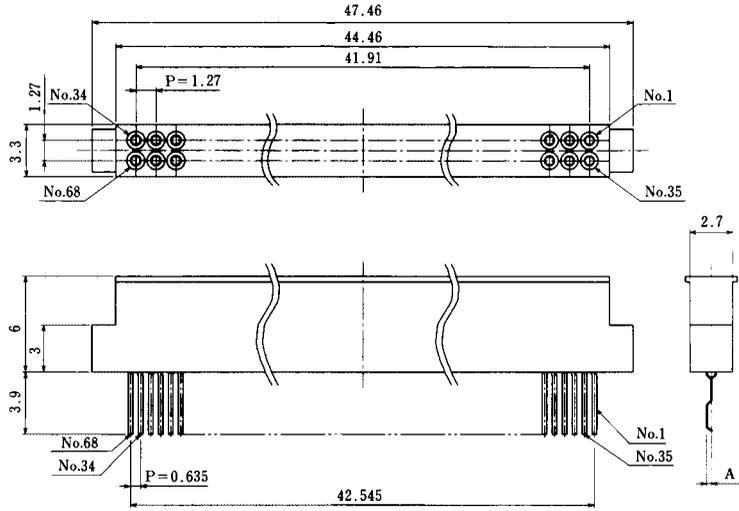
| Part Number       | CL No.     | A | B   | C |
|-------------------|------------|---|-----|---|
| IC1K-68RD-1.27SF  | 640-0046-0 | 2 | 0.3 | 5 |
| IC1K-68RD-1.27SFA | 640-0047-2 | 2 | 0.9 | 5 |
| IC1K-68RD-1.27SFB | 640-0048-5 | 3 | —   | 6 |

## ■68 Contacts Connector

- Connector thickness:2.7mm
- Single surface mount type

Compliant with PC Card Standard

IC1F-68RD-1.27SF  
CL640-0035-3



Unit:mm

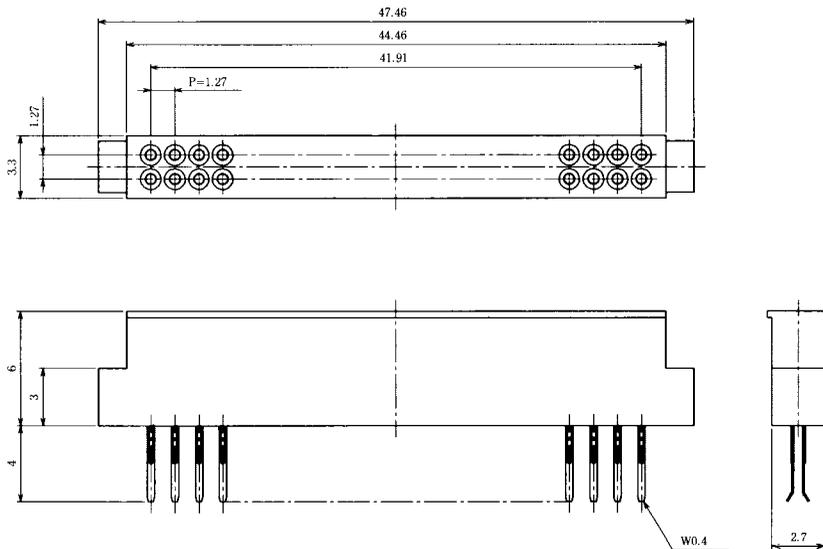
| Part Number       | CL No.     | A     |
|-------------------|------------|-------|
| IC1F-68RD-1.27SF  | 640-0035-3 | 0.3   |
| IC1F-68RD-1.27SFA | 640-0040-3 | 0.854 |

## ■68 Contacts Connector

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

Compliant with PC Card Standard

IC1F-68RD-1.27SH  
CL640-0013-0



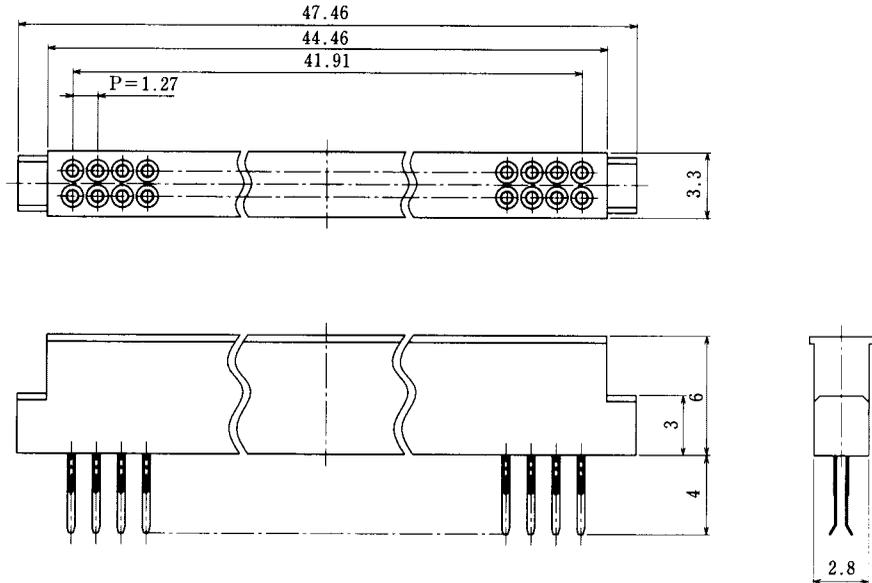
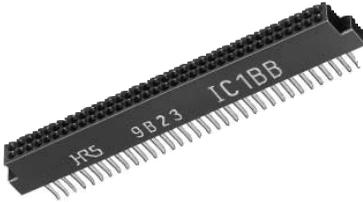
- Recommended board thickness : 0.4 to 0.5mm

## ■68 Contacts Connector

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

Compliant with PC Card Standard

IC1BB-68RD-1.27SH  
CL640-0036-6



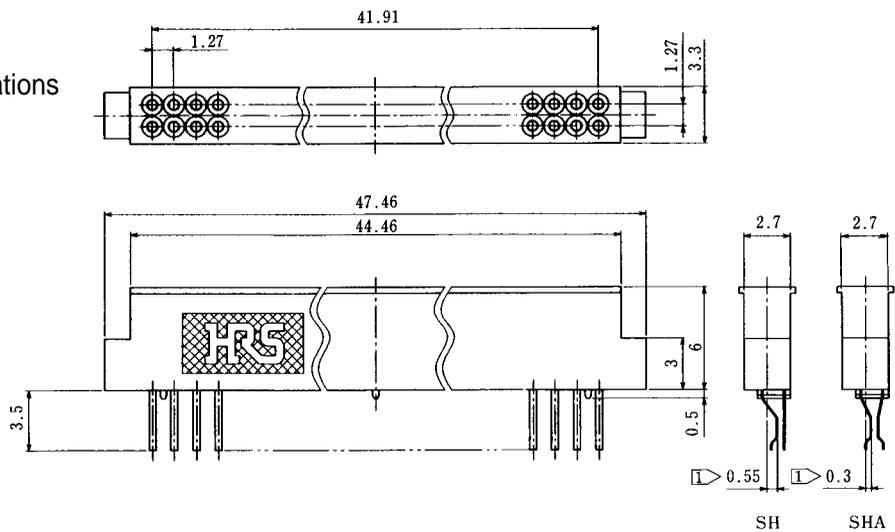
- Recommended board thickness : 0.4 to 0.5mm

## ■68 Contacts Connector

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

Compliant with PC Card Standard

IC1HA-68RD-1.27SH  
CL640-0044-4



- 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 |

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Memory Card Connectors](#) category:*

*Click to view products by [Hirose](#) manufacturer:*

Other Similar products are found below :

[M21-033321-005](#) [6407-249V-25273P](#) [6407-249V-25343P](#) [6426-201-21343](#) [69.920.0553.0](#) [FCN-568P068-G/07-4V](#) [809180410000000](#)  
[N7E50-7516PG-20-WF](#) [21920-5](#) [2041353-2](#) [33CFAE-DN](#) [502431-1011](#) [EN2997S61212BN](#) [EN2997SE61212BN](#) [95622-003LF](#) [N7E50-](#)  
[U516RB-50-SIN0005](#) [95079-00CALF](#) [84648-056HLF](#) [68-580163-21S](#) [33DVIR-29S12R](#) [125A-78C00](#) [MI20A-50PD-SF-EJL\(71\)](#) [KP10S-SF-](#)  
[PEJ\(812\)](#) [504536-0691](#) [504580-0691](#) [CCM03-3109 B LFT](#) [2309923-1](#) [61126-050CAHLF](#) [IC1GA-68PD-1.27DS-EJ\(72\)](#) [GTFP08432B1HR](#)  
[G85DT17001P1EU](#) [G85B21611142HHR](#) [GSD090144HR](#) [G85D1140022P1HR](#) [GMCB05801124EU](#) [112K-TAA0-RA1](#) [115S-ACA2](#) [115S-](#)  
[ACA3](#) [115S-BS00](#) [115S-BT00](#) [115V-AD00](#) [MCSP-Q1-08-A-SG-T/R](#) [503960-0695](#) [101B-TAA0-R](#) [101D-TAAA-R01](#) [101D-TAAB-R01](#)  
[104D-TCA0-R06](#) [104B-TAA0-R](#) [112C-TBAR-R02](#) [114B-40B00-R02](#)