

## Specifications

As specifications for this product differ by pitch and material-mix, please contact our Sales Department for detailed information.

Insulation Resistance: 1,000MΩ min. at 100V DC, 500V DC

Dielectric Withstanding Voltage: for 1 minute at 100V AC, 500V AC, 700V AC (Socket Dependent)

Contact Resistance: 30mΩ max. at 10mA/20mV max.

Operating Temperature Range: (PEI/PSF) -40°C to +150°C

(PES) -55°C to +170°C

(PEI) -55°C to +170°C

## Materials and Finish

Housing: Polysulphone (PSF)

Polyethersulphone (PES)

Polyetherimide (PEI)

Contacts: Beryllium Copper (BeCu)

Plating: Gold over Nickel

## Part Number (Details)

IC51 - 056 4 - 924

Series No.

No. of Contact Pins

Number of Sides with Contacts

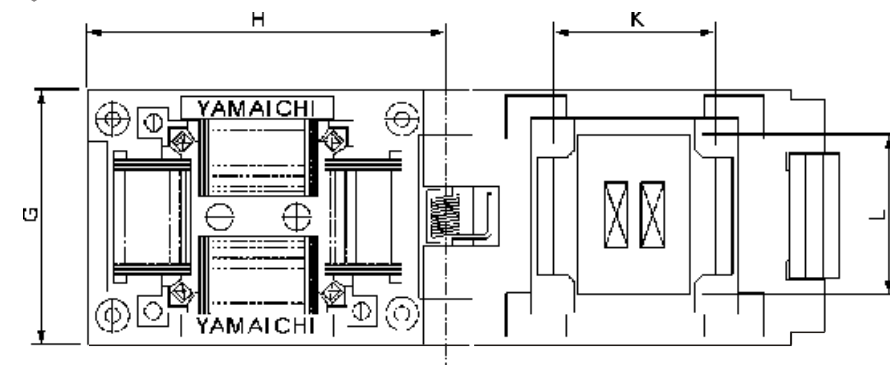
Design Number

## Features

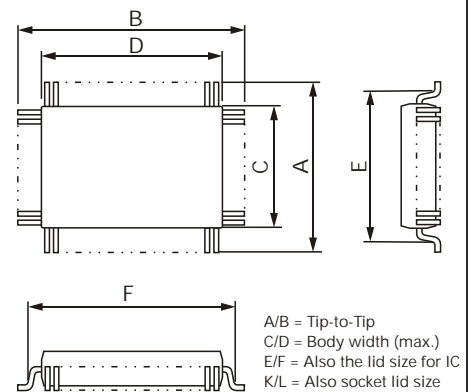
- High reliability, durability and temperature range
- Custom made also available for high pin count and fine-pitch IC packages

## Applicable Socket and IC Outline Dimensions (Reference Only)

### Outline Socket Dimensions



### Outline IC Dimensions



## QFP, PQFP and TQFP (Reference Only)

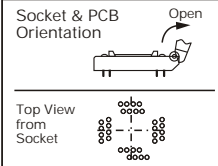
| Part Number        | Pin Count | Pitch | Body Size | IC Dimensions |      |      |      |          |          | Socket Dimensions |      |      |      |
|--------------------|-----------|-------|-----------|---------------|------|------|------|----------|----------|-------------------|------|------|------|
|                    |           |       |           | A             | B    | C    | D    | E (max.) | F (max.) | G                 | H    | K    | L    |
| IC51-0564-680      | 56        | 0.65  | 10 x 10   | 13.2          | 13.2 | 10.0 | 10.0 | 11.8     | 11.8     | 34.0              | 35.5 | 11.8 | 11.8 |
| IC51-0564-924      | 56        | 0.8   | 10 x 14   | 13.2          | 17.2 | 10.0 | 14.0 | 11.8     | 15.8     | 37.0              | 41.0 | 11.8 | 15.8 |
| IC51-0564-790      | 56        | 1.0   | 16 x 20   | 19.2          | 23.2 | 16.0 | 20.0 | 17.7     | 21.8     | 36.0              | 46.0 | 17.7 | 21.8 |
| IC51-0604-468      | 60        | 0.8   | 14 x 14   | 17.2          | 17.2 | 14.0 | 14.0 | 15.8     | 15.8     | 38.0              | 43.0 | 15.8 | 15.8 |
| IC51-0604-361      | 60        | 0.8   | 16 x 16   | 18.3          | 18.3 | 16.0 | 16.0 | 16.5     | 16.5     | 37.0              | 44.0 | 16.7 | 16.7 |
| IC51-0604-497-2    | 60        | 1.0   | 16 x 20   | 17.9          | 23.9 | 16.0 | 20.0 | 17.0     | 23.0     | 34.0              | 42.5 | 17.0 | 23.0 |
| IC51-0644-807      | 64        | 0.5   | 10 x 10   | 12.0          | 12.0 | 10.0 | 10.0 | 11.3     | 11.3     | 32.0              | 35.0 | 11.3 | 11.3 |
| IC51-0644-1586     | 64        | 0.65  | 12 x 12   | 15.3          | 15.3 | 12.0 | 12.0 | 13.9     | 13.9     | 36.0              | 39.0 | 13.9 | 13.9 |
| IC51-0644-1602     | 64        | 0.65  | 12 x 12   | 14.0          | 14.0 | 12.0 | 12.0 | 13.1     | 13.1     | 20.0              | 42.0 | 13.2 | 13.2 |
| IC51-0644-692-*    | 64        | 0.8   | 14 x 14   | 14.0          | 14.0 | 14.0 | 14.0 | -        | -        | 22.0              | 26.0 | -    | -    |
| IC51-0644-824-3    | 64        | 0.8   | 14 x 14   | 16.2          | 16.2 | 14.0 | 14.0 | 15.4     | 15.4     | 30.0              | 42.5 | 15.5 | 15.5 |
| IC51-0644-824-1    | 64        | 0.8   | 14 x 14   | 17.2          | 17.2 | 14.0 | 14.0 | 15.8     | 15.8     | 30.0              | 42.5 | 16.0 | 16.0 |
| IC51-0644-824-2    | 64        | 0.8   | 14 x 14   | 17.9          | 17.9 | 14.0 | 14.0 | 16.7     | 16.7     | 30.0              | 42.5 | 16.8 | 16.8 |
| IC51-0644-820-3    | 64        | 1.0   | 16 x 22   | 18.0          | 24.0 | 20.0 | 14.0 | 16.9     | 22.9     | 34.0              | 42.5 | 17.0 | 23.0 |
| IC51-0644-820-1    | 64        | 1.0   | 14 x 20   | 18.7          | 24.7 | 14.0 | 20.0 | 17.0     | 23.0     | 34.0              | 42.5 | 17.0 | 23.0 |
| IC51-820-2.KS-9376 | 64        | 1.0   | 14 x 20   | 17.9          | 23.9 | 14.0 | 20.0 | 16.6     | 22.6     | 34.0              | 42.5 | 17.0 | 23.0 |
| IC51-0644-820-2    | 64        | 1.0   | 14 x 20   | 17.6          | 23.6 | 14.0 | 20.0 | 16.3     | 22.3     | 34.0              | 42.5 | 16.4 | 22.4 |
| IC51-0644-820-4    | 64        | 1.0   | 14 x 20   | 17.2          | 23.2 | 14.0 | 20.0 | 15.8     | 21.8     | 34.0              | 42.5 | 15.8 | 21.8 |
| IC51-0644-472      | 64        | 1.0   | 14 x 20   | 19.6          | 23.6 | 14.0 | 20.0 | 16.2     | 22.2     | 34.0              | 42.5 | 17.0 | 23.0 |

KS-xxxxx = modified base socket

IC51-0644-692-\*for this socket 051-824-\*can also be used

# IC51 Series (Clamshell)

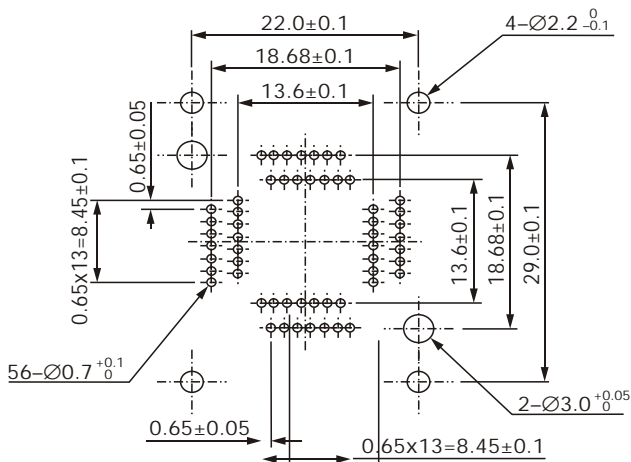
# Quad Flat Package (QFP, PQFP, TQFP)



## Recommended PCB Layouts (56 to 60 pins)

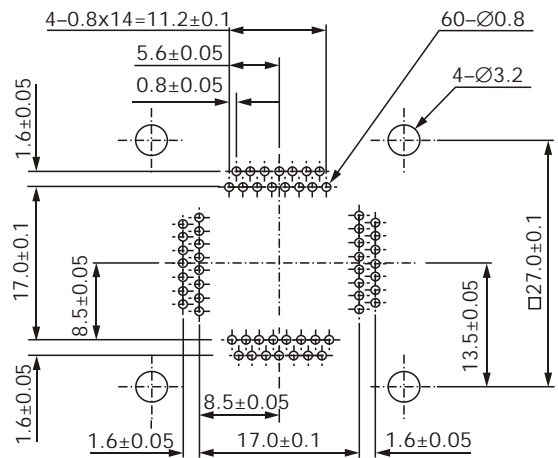
56 pins

IC51-0564-680



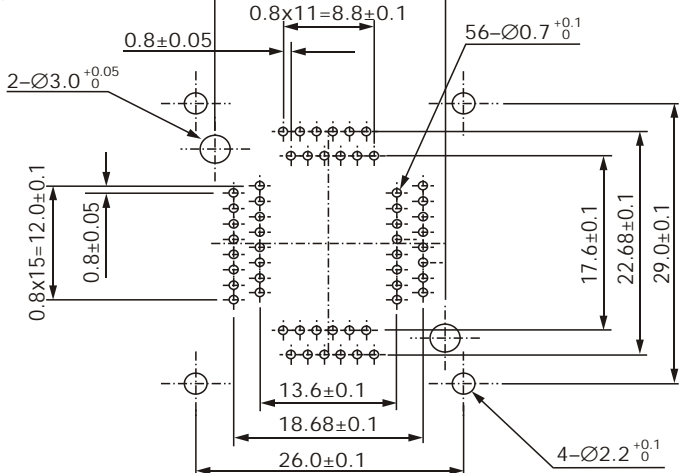
60 pins

IC51-0604-468



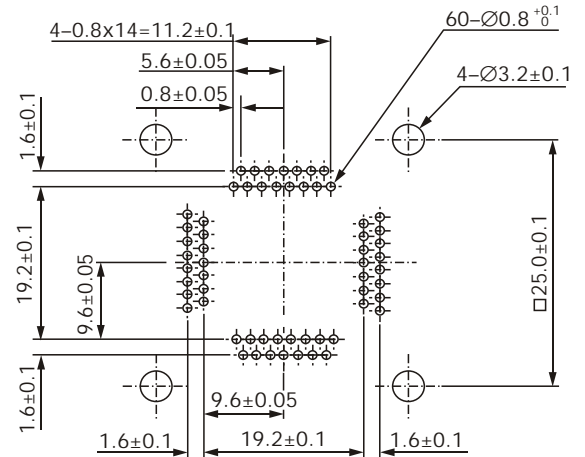
56 pins

IC51-0564-924



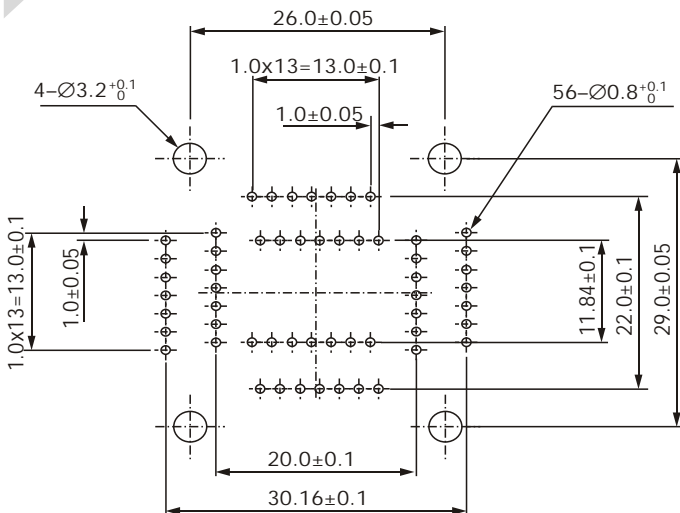
60 pins

IC51-0604-361



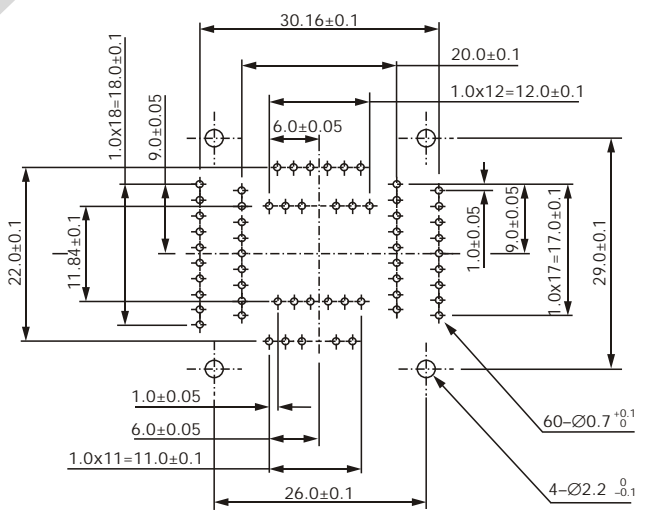
56 pins

IC51-0564-790



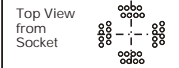
60 pins

IC51-0604-497-2



# IC51 Series (Clamshell)

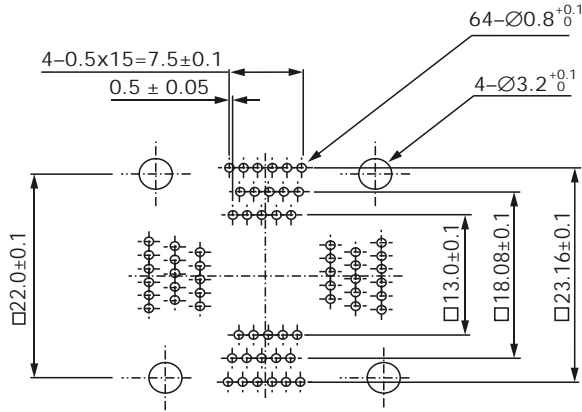
# Quad Flat Package (QFP, PQFP, TQFP)



## Recommended PCB Layouts (64 pins)

64 pins

IC51-0644-807



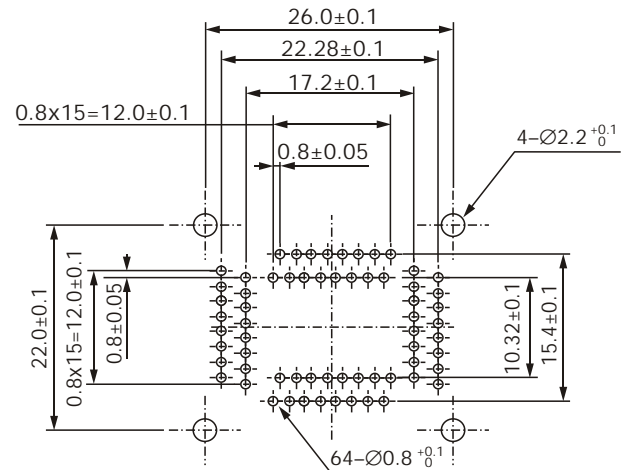
64 pins

IC51-0644-824-1

IC51-0644-824-2

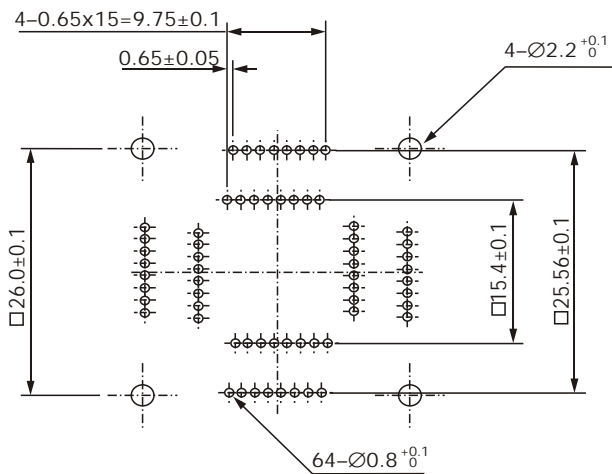
IC51-0644-824-3

IC51-0644-692-\*



64 pins

IC51-0644-1586



64 pins

IC51-820-2.KS-9376

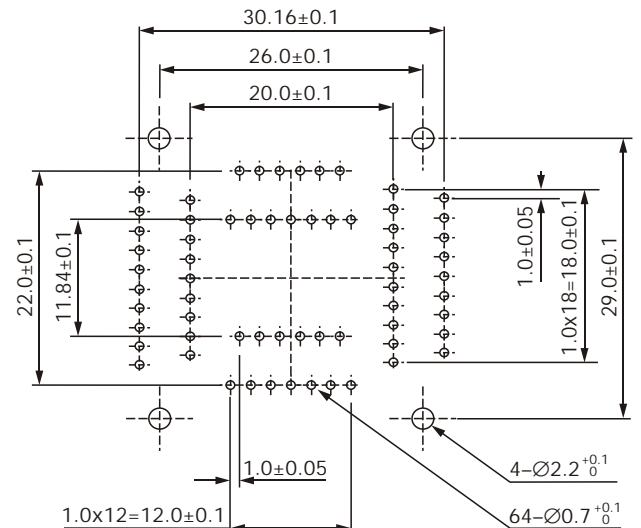
IC51-0644-820-1

IC51-0644-820-2

IC51-0644-820-3

IC51-0644-820-4

IC51-0644-472



64 pins

IC51-0644-1602

