

## Specifications

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Insulation Resistance:           | 1,000M $\Omega$ min. at 500V DC      |
| Dielectric Withstanding Voltage: | 700V AC for 1 minute                 |
| Contact Resistance:              | 20m $\Omega$ max. at 10mA /20mV max. |
| Current Rating:                  | 1A max.                              |
| Operating Temperature Range:     | -40°C to +170°C (PPS)                |
| Mating Cycles:                   | 25,000 to 50,000 insertions          |

## Materials and Finish

Housing: Polyphenylenesulfide (PPS), glass filled  
 Contacts: Beryllium Copper (BeCu)  
 Plating: Gold over Nickel

## Features

- ⇨ Dual wipe contacts ensure high reliability
- ⇨ Low costs due to selective gold plating
- ⇨ Applicable for IC packages and side braze packages
- ⇨ Ideal for automated burn-in



## Part Number (Details)

IC37N R B - 14 03 - G 4

Series No.

Housing Material  
R=PPS

Contact Plating:  
B = Mating Ter. 0.3 $\mu$ m Au  
Solder Ter. 0.1 $\mu$ m Au

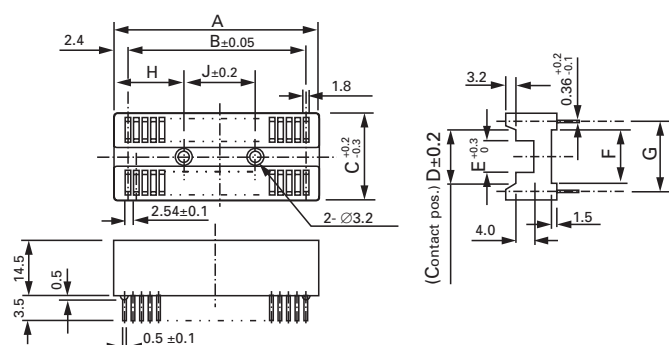
No. of Contact Pins

Row Space (03 = 0.3 inches)

Gold Plating

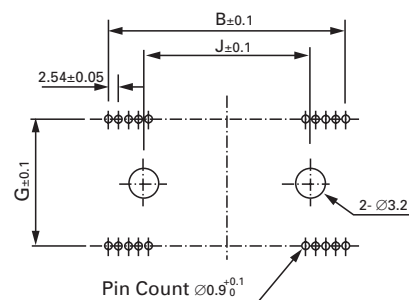
Straight, Through Hole Type

## Outline Socket Dimensions



## Recommended PC Board Layout

Top View from Socket



| Part Number     | Pin Count | A     | B                 | C    | D    | E   | F    | G    | H     | J     |
|-----------------|-----------|-------|-------------------|------|------|-----|------|------|-------|-------|
| IC37NRB-1403-G4 | 14        | 20.04 | 2.54 x 6 = 15.24  | 17.0 | 7.8  | 2.0 | 7.5  | 11.4 | -     | -     |
| IC37NRB-1404-G4 | 14        | 20.04 | 2.54 x 6 = 15.24  | 19.5 | 10.3 | 2.9 | 8.0  | 13.9 | -     | -     |
| IC37NRB-1603-G4 | 16        | 22.58 | 2.54 x 7 = 17.78  | 17.0 | 7.8  | 2.0 | 7.5  | 11.4 | -     | -     |
| IC37NRB-1803-G4 | 18        | 25.12 | 2.54 x 8 = 20.32  | 17.0 | 7.8  | 2.0 | 7.5  | 11.4 | -     | -     |
| IC37NRB-2003-G4 | 20        | 27.66 | 2.54 x 9 = 22.86  | 17.0 | 7.8  | 2.0 | 7.5  | 11.4 | -     | -     |
| IC37NRB-2004-G4 | 20        | 27.66 | 2.54 x 9 = 22.86  | 19.5 | 10.3 | 2.9 | 8.0  | 13.9 | -     | -     |
| IC37NRB-2203-G4 | 22        | 30.20 | 2.54 x 10 = 25.40 | 17.0 | 7.8  | 2.0 | 7.5  | 11.4 | -     | -     |
| IC37NRB-2204-G4 | 22        | 30.20 | 2.54 x 10 = 25.40 | 19.5 | 10.3 | 2.9 | 8.0  | 13.9 | -     | -     |
| IC37NRB-2403-G4 | 24        | 32.74 | 2.54 x 11 = 27.94 | 17.0 | 7.8  | 2.0 | 7.5  | 11.4 | -     | -     |
| IC37NRB-2404-G4 | 24        | 32.74 | 2.54 x 11 = 27.94 | 19.5 | 10.3 | 2.9 | 8.0  | 13.9 | -     | -     |
| IC37NRB-2406-G4 | 24        | 32.74 | 2.54 x 11 = 27.94 | 24.6 | 15.4 | 8.0 | 10.3 | 19.0 | 6.21  | 20.32 |
| IC37NRB-2803-G4 | 28        | 37.82 | 2.54 x 13 = 33.02 | 17.0 | 7.8  | 2.0 | 7.5  | 11.4 | -     | -     |
| IC37NRB-2804-G4 | 28        | 37.82 | 2.54 x 13 = 33.02 | 19.5 | 10.3 | 2.9 | 8.0  | 13.9 | -     | -     |
| IC37NRB-2806-G4 | 28        | 37.82 | 2.54 x 13 = 33.02 | 24.6 | 15.4 | 8.0 | 10.3 | 19.0 | 6.21  | 25.40 |
| IC37NRB-3203-G4 | 32        | 42.90 | 2.54 x 15 = 38.10 | 17.0 | 7.8  | 2.0 | 7.5  | 11.4 | -     | -     |
| IC37NRB-3206-G4 | 32        | 42.90 | 2.54 x 15 = 38.10 | 24.6 | 15.4 | 8.0 | 10.3 | 19.0 | 8.75  | 25.40 |
| IC37NRB-3204-G4 | 32        | 42.90 | 2.54 x 15 = 38.10 | 19.5 | 10.3 | 2.9 | 8.0  | 13.9 | -     | -     |
| IC37NRB-4006-G4 | 40        | 53.06 | 2.54 x 19 = 48.26 | 24.6 | 15.4 | 8.0 | 10.3 | 19.0 | 13.83 | 25.40 |
| IC37NRB-4206-G4 | 42        | 55.60 | 2.54 x 20 = 50.80 | 24.6 | 15.4 | 8.0 | 10.3 | 19.0 | 15.10 | 25.40 |
| IC37NRB-4806-G4 | 48        | 63.22 | 2.54 x 23 = 58.42 | 24.6 | 15.4 | 8.0 | 10.3 | 19.0 | 18.27 | 25.40 |