RENESAS

PCA7757

Converter Board from 64-pin FLGA (64F0G) to 32-pin DIL Standard-Pitch (with FLGA Socket and Pattern for Oscillator)

User's Manual

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1. Outline

The PCA7757 is a converter board from 64-pin FLGA (64F0G) to standard-pitch (2.54-mm). The pins correspond one-to-one.

2. Connecting the Oscillator Circuit Pattern

Take notice that the processing depends on whether or not the IC1 (oscillator module) is used.

(1) When the IC1 (oscillator module) is used
Recommended oscillator module: SG-51P (Seiko Epson Corporation)
When using the IC1, the following processing is necessary (see (1) to (3) in Figure 1).
    (1) Supply VCC and GND.
    (2) Connect the OUT pin to the XIN pin.
    (3) Install a bypass capacitor at the C1.
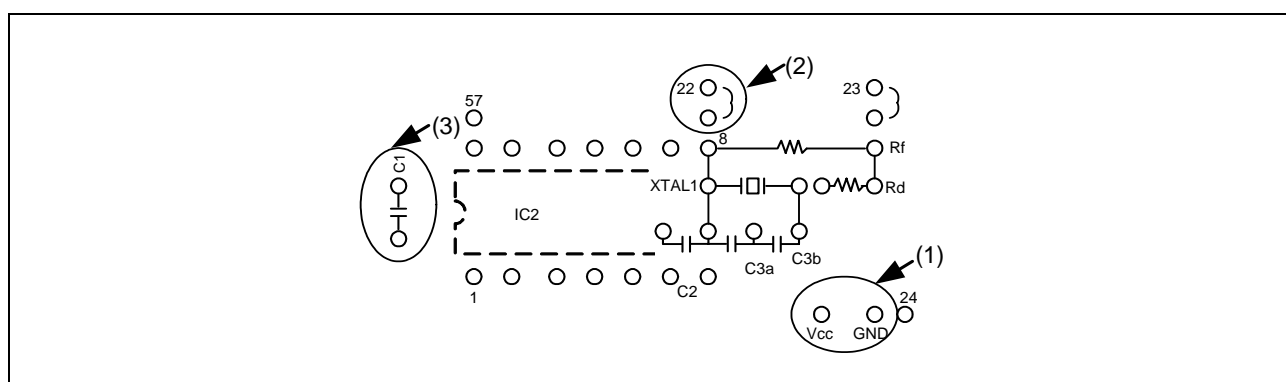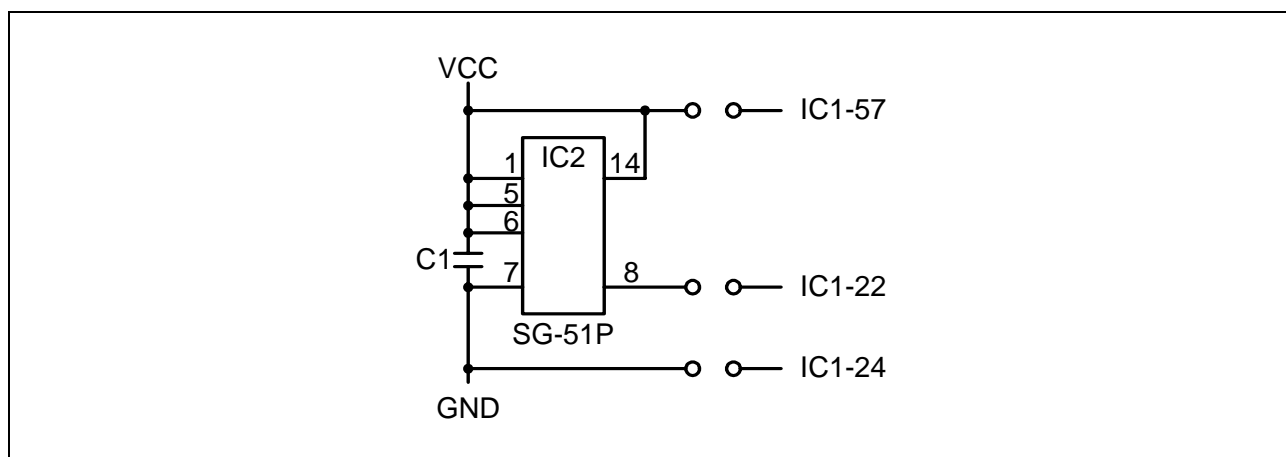

Figure 1 Connections when using the C1

Figure 2 Connection diagram when using the C1

(2) When using 2-pin type oscillator
When using a 2-pin type oscillator, follow the procedure below (see (1) to (8) in Figure 3).
For the capacitor capacity and the resistance value, contact the capacitor distributor.

(1) Install an oscillator at the XTAL1.
(2) Install a capacitor at the C2.
(3) Install a capacitor at the C3b.
(4) Install a resistor at the Rd.
(5) Install a resistor at the Rf.
(6) Connect the XIN pin.
(7) Connect the XOUT pin.
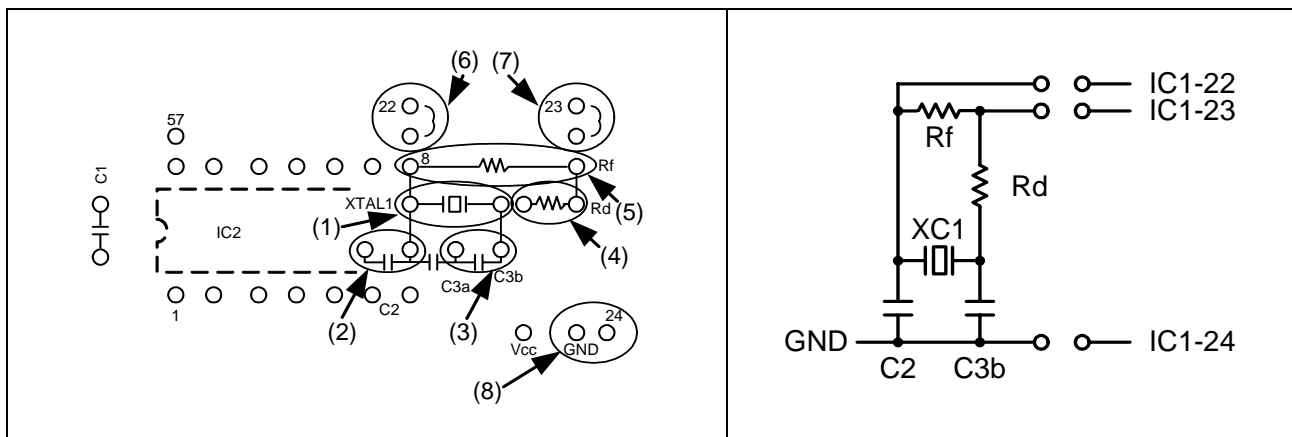(8) Connect the GND of the oscillator.

Figure 3 When using 2-pin type oscillator

(3) When using 3-pin type oscillator
When using a 3-pin type oscillator, follow the procedure below (see (1) to (6) in Figure 4).
For the capacitor capacity and the resistance value, contact the capacitor distributor.

(1) Install capacitors at the C3a and C3b.
(2) Install a resistor at the Rd.
(3) Install a resistor at the Rf.
(4) Connect the XIN pin.
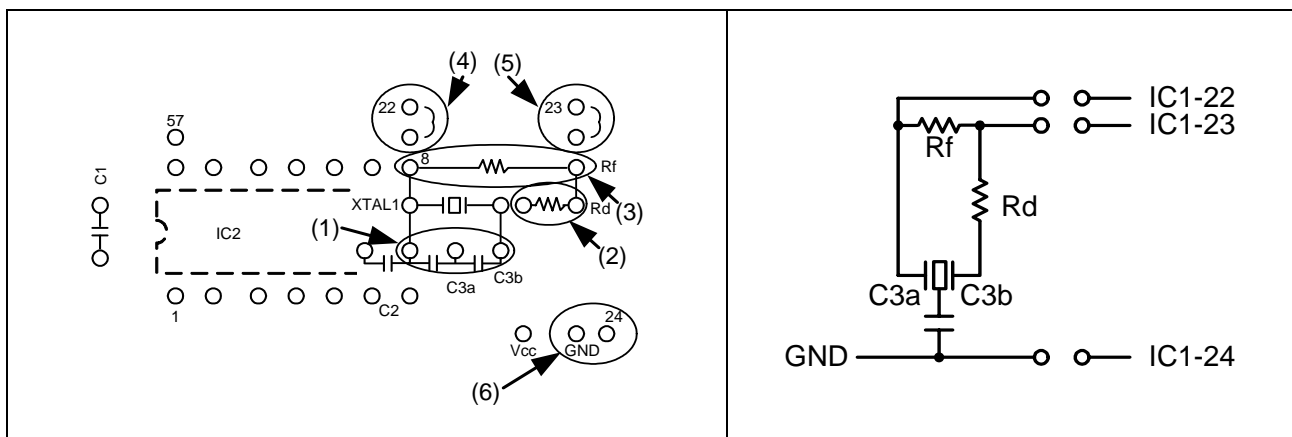(5) Connect the XOUT pin.
(6) Connect the GND of the oscillator.

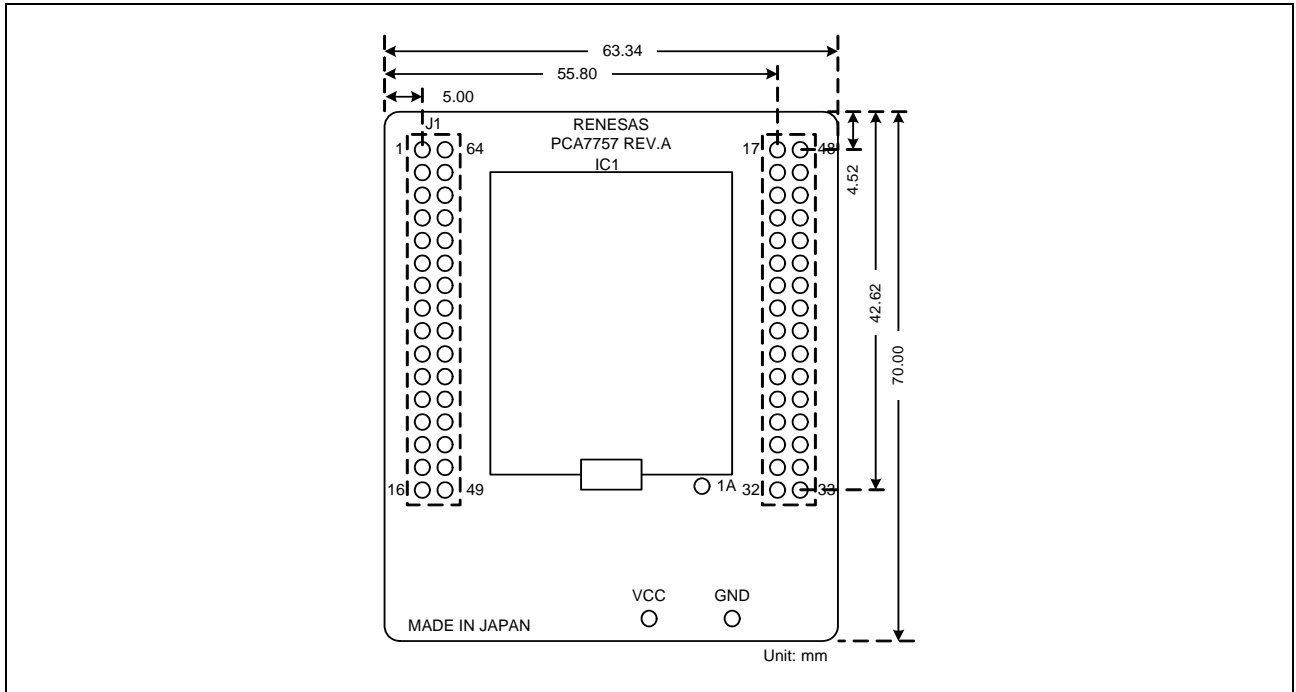Figure 4 When using 3-pin type oscillator

3. External Dimensions

Figure 5 External dimensions of the PCA7757

4. Precautions

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For inquiries about this product or the contents of this manual, contact your local distributor.
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