ICREX
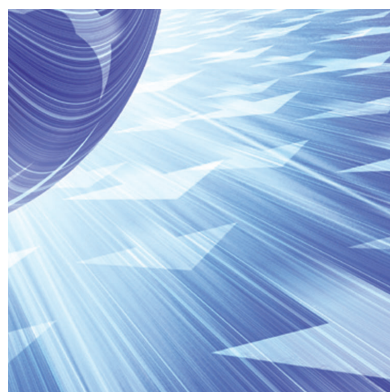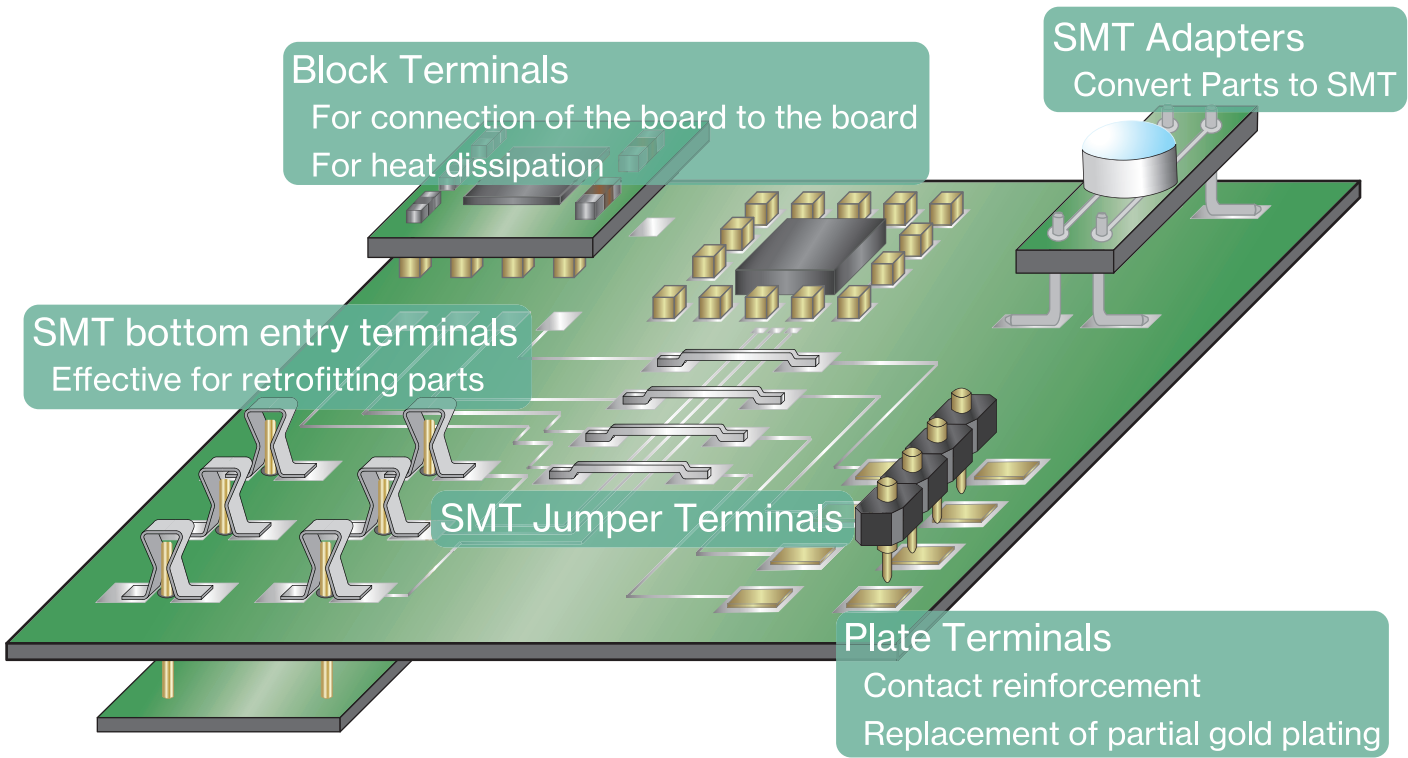
CATALOG

Custom SMT Parts & Components
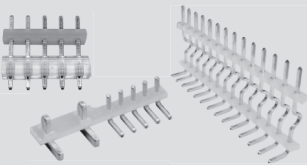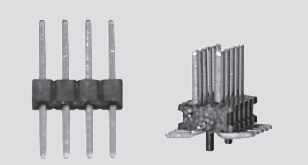
ICREX CO., LTD.

Custom SMT Parts & Components

Block Terminals
For connection of the board to the board
For heat dissipation

SMT Adapters
Convert Parts to SMT

SMT bottom entry terminals
Effective for retrofitting parts

SMT Jumper Terminals

Plate Terminals
Contact reinforcement
Replacement of partial gold plating
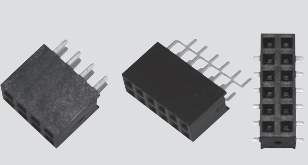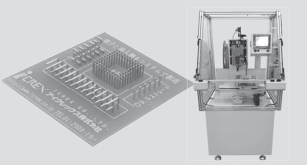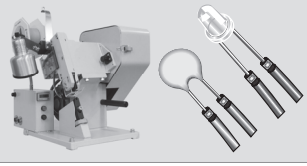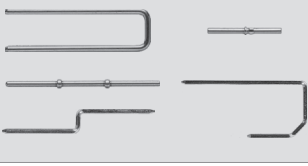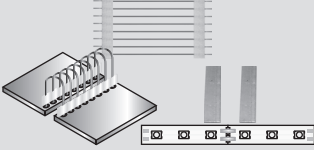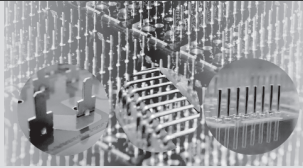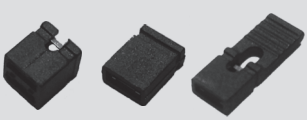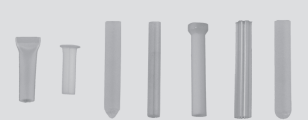
Catalog list

Full custom pin headers	Semi-custom pin headers	Female Headers	Chain Terminal Insert Systems
Crimping System	Pin Terminals, Lead-Pin	Flexible board connectors	PCB with terminals
Mini Jumpers	Assembly Services	Tube Caps	Problem resolution case studies

Plate terminals

Overview

- For strengthening substrate pads
- This terminal can be used as a substitute for partial plating, etc.
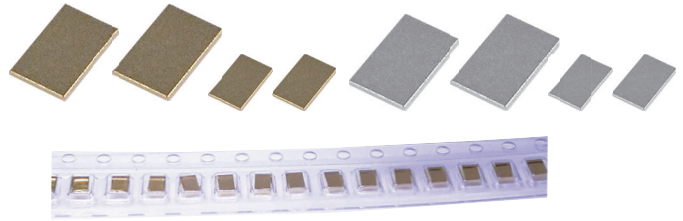
Special features

- **No burrs on front face (whole circumference curved)**
  - Do not damage the pad or pattern.
  - There is no floating due to burrs.
- **There is no front and back.**

Plate terminal side view
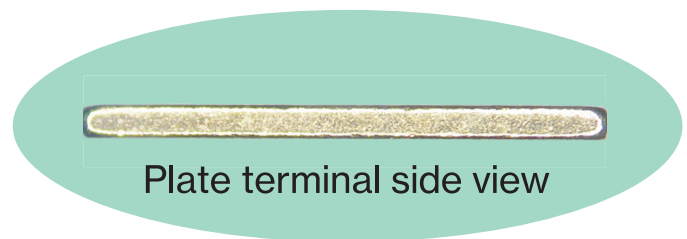
Applications
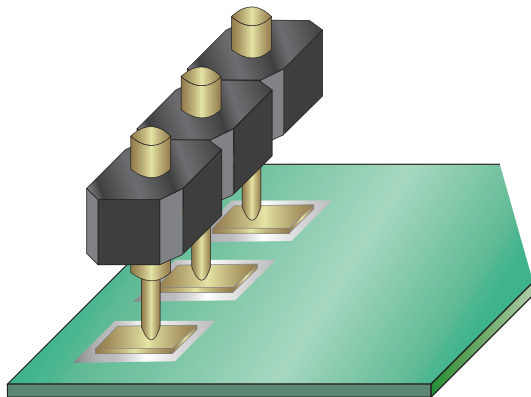
Contact reinforcement
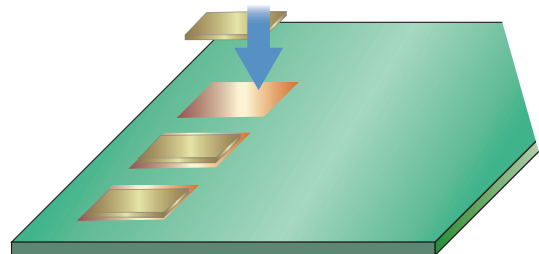
Replacement of partial gold plating

Specifications
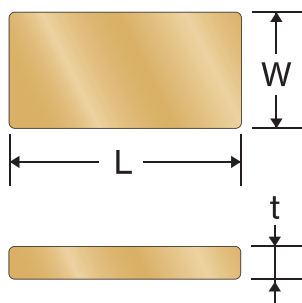
Material : brass
Surface treatment : Gold, Tin

Dimensions (Unit mm)		
W	L	t
1	2	0.3
2	3 ~ 4	0.3, 0.4
3	5 ~ 6	0.3, 0.4
4	6 ~ 8	0.3, 0.4, 0.5

Other dimensions, materials and surface treatments can be accommodated.
Please inquire separately if taping is required.

- All of our products are RoHS compliant.

Block terminals

Overview, special features

- Mechanical components for connection of board modules
- For heat dissipation
  These pins can be used for example.
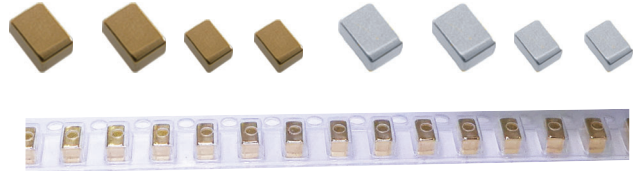
Applications

As an external connection terminal
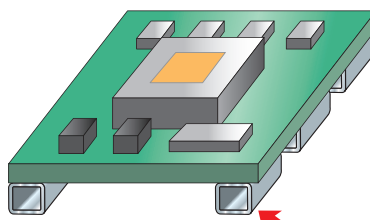
For heat dissipation

Solid type

Hollow type
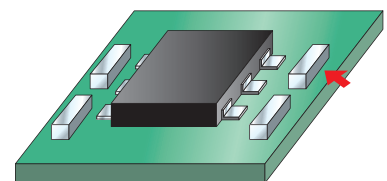
Solid type

Specifications

- **Solid type**

A

B

A
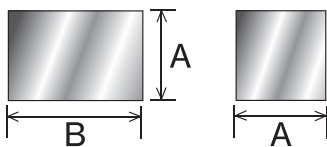
Material : brass, Copper
Surface treatment : Gold, Tin
Approximate dimensions :
A=0.3 ~ 2mm
B=A×1.6 or more (mm)

- **Hollow square type**

0.3 Min

1 Min

1 Min
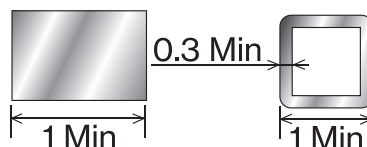
Material : brass, Copper
Surface treatment : Gold, Tin

- **Hollow round type**

0.3 Min

1 Min

1 Min
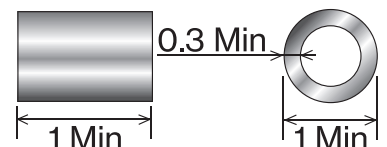
Material : brass, Copper
Surface treatment : Gold, Tin

Contact us separately for dimensions, materials, surface treatment,
and taping specifications other than those shown.

Custom SMT bottom entry terminals

Overview, special features

- Parts for attaching lead-type parts and board modules to through-hole boards and single-sided boards from the back side.
- Enables mounting of parts and modules from the back side of the board mounting surface.
- Automatic mounting is possible with a mounter. (For reel-wound type)
- Increased flexibility in component placement.
- This enables insertion and removal of components and modules to be mounted.
- It is not limited to through-hole boards, and can be mounted on single-sided boards.
- No secondary work such as adosorption cap peeling is required after reflow.

Mounting process
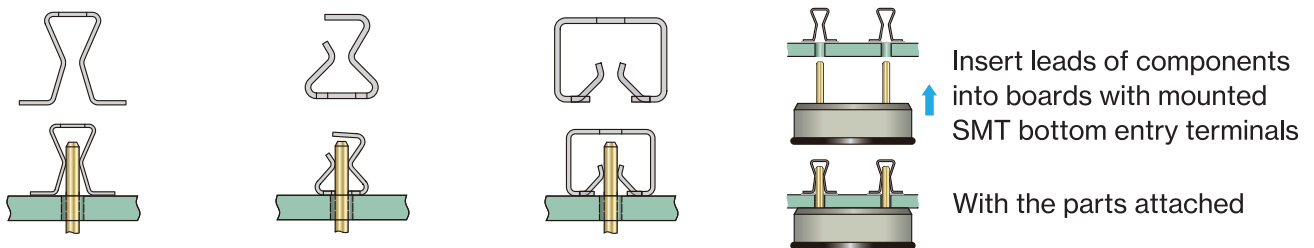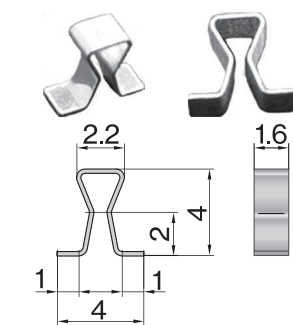
1) Cream solder application
2) SMT bottom entry terminal mounting
3) Reflow
4) Mounting of Parts, etc.

No process required, such as removing the adosorption cap

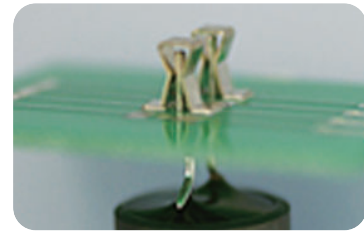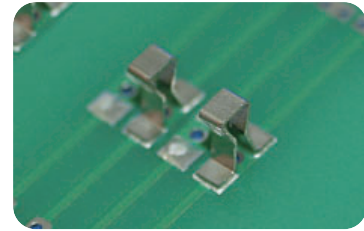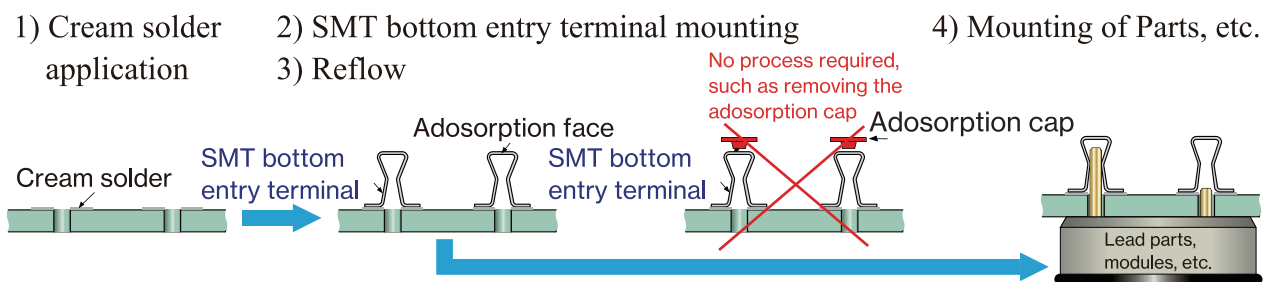Adosorption cap

Adosorption face

Cream solder

SMT bottom entry terminal

SMT bottom entry terminal

Lead parts, modules, etc.

Product examples

Insert leads of components into boards with mounted SMT bottom entry terminals

With the parts attached

Specifications

2.2   1.6
4
2
1   1
4

Material : phosphor bronze
Surface treatment : Ni base, Sn plating

0.6   1   1.8
4
2
0.4±0.05
2.6

Material : phosphor bronze
Surface treatment : Ni base, Sn plating

1.25   1   1.25   0.5
3
1
2.8   1   2.6
1.5   0.5   2.5   0.5
4

Material : phosphor bronze
Surface treatment : Ni base, Sn plating

- All of our products are RoHS compliant.

SMT Adapters

Overview

Adapters that convert components not for SMT to SMT using lead terminals and base materials are custom-made.

Special features

- **Base part is substrate material**
  - Be resistant to heat
    Compared with plastic base, it is resistant to solidification and deformation due to heat.
  - Flexible base shape
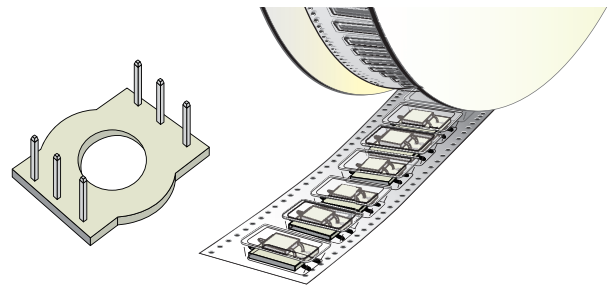   Space is saved with the base shape that matches the board module and case.
- **Embossed taping supply**
  We can also supply with embossed carrier tape upon request.

- **Reduction of initial costs**
  Base fabrication does not require expensive initial costs, such as molding dies.
- **Compatible with circuit boards**

Product examples

Components	+	SMT adapters	=	SMT components
	+		=	
	+		=	

Components	+	SMT adapters	=	SMT components
	+	with circuit	=	
	+	with circuit	=	two-tiered

SMT Jumper Terminals

Overview

Custom-made SMT jumper terminal.
Reel packing is also available as an option.

1
2   2
0.64   1.14
6 ~ 30
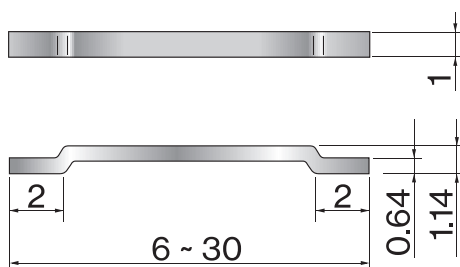
Material : brass
Surface treatment : Tin

Contact us for taping specifications.

Flow of realization of our products

Hearing	We accept requests and consultations. We will also ask about installation spaces, processes, and restrictions on usage environments.
Design	We propose a design that satisfies your requirements. (usually 1 to 2 weeks)
Estimate	Check the drawing and submit an estimate if there is no problem.
Production of the prototype	We will produce a prototype. (usually about three weeks to two months)
Verification	We will deliver a prototype. Evaluation is verified by the customer.
Product production	We accept production of products

● All of our products are RoHS compliant.

ICREX CO., LTD.
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