

EDGE-MOUNT Q2™ INTERCONNECTS

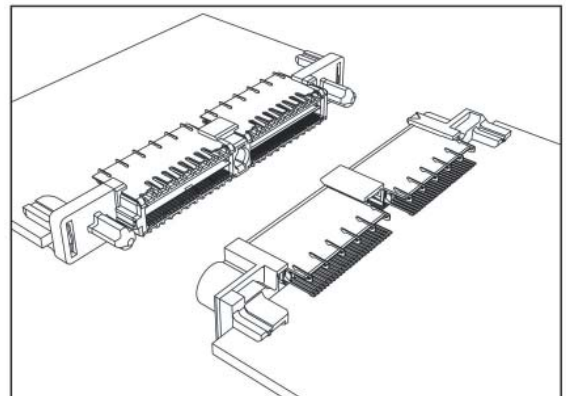
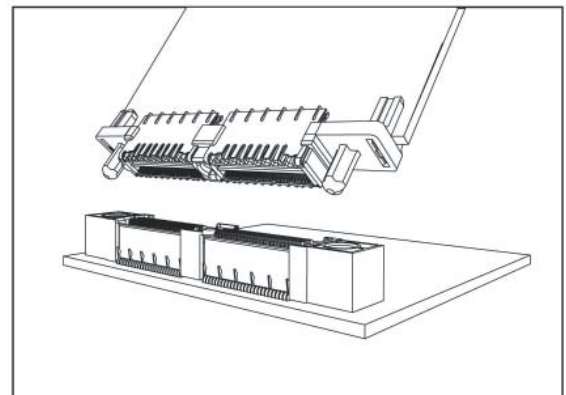
APPLICATION OVERVIEW

Samtec Edge-Mount Q2™ interconnects have been designed for perpendicular (90°) and coplanar (180°) board-to-board applications for .062" thick PC boards. The integral ground plane between the signal rows helps to maximize signal integrity by minimizing impedance, cross-talk, attenuation, and VSWR.

Common applications include:

- Servers
- Routers
- Set top boxes
- Network systems
- Switchers
- Hubs
- Bridges
- Industrial computers
- Test systems
- System upgrades

*Perpendicular
and coplanar
applications*



PROCESSING OVERVIEW

Samtec's High Speed Q2™ Edge-Mount interconnects can be used to connect PC boards (PCBs) populated on one or both sides of the board. The following guidelines were developed for Q2™ interconnect systems on .635mm centerline on .062" thick PC boards.

While we have made every attempt to cover most situations, these guidelines and suggestions should not be considered design requirements for all applications. Samtec highly recommends testing the Q2™ Edge-Mount interconnects on your boards and in your process to guarantee optimum results.

PROCESSING GUIDELINES - DUAL SIDED PCB

(SMT components populated on both sides of PCB)

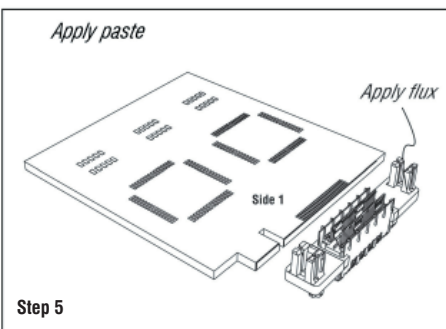
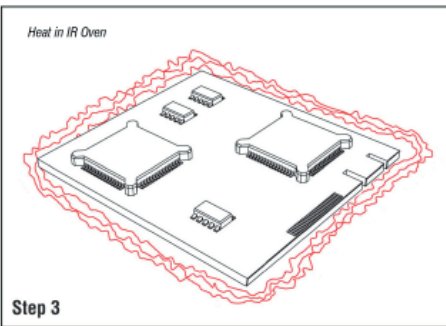
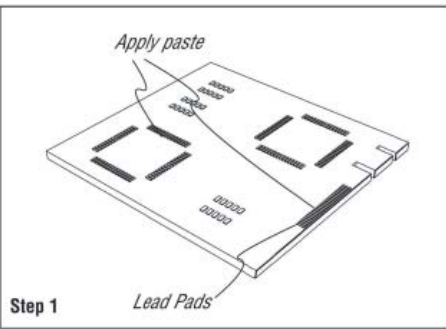
General Processing Equipment and Conditions:

- .006" (0,15mm) stencil
- Chemical or laser etched stencils
- Oven speed/temperature settings within typical SMT process boundaries
- Connectors hand-placed on the PCB

EDGE-MOUNT Q2™ INTERCONNECTS

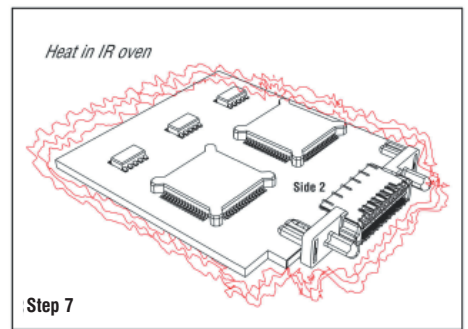
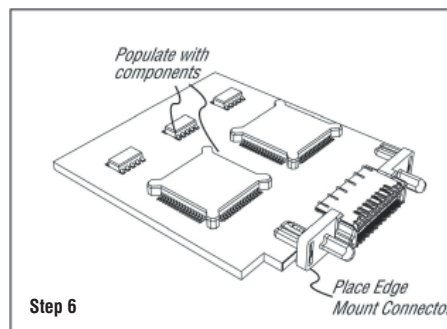
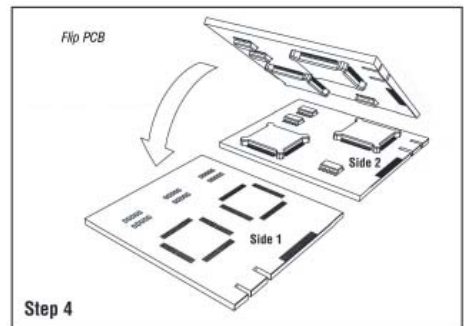
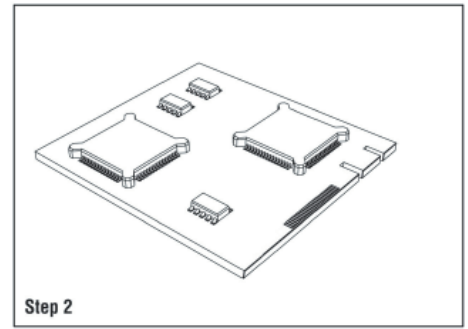
PROCESSING GUIDELINES - DUAL SIDED PCB - (CONT'D)

(SMT components populated on both sides of PCB)



Procedures:

1. Apply solder paste to side one of the PCB.
2. Place SMT components on side one. Do not place edge-mount connector on PCB at this time.
3. Process using standard SMT reflow parameters.
4. Flip PCB and apply solder paste to side two of the PCB.
5. Apply flux to leads of edge mount connector to be soldered to side one of the PCB.
6. Place edge-mount connector on PCB at the same time other components are placed on side two.
7. Process using standard SMT reflow parameters.



FREQUENTLY ASKED QUESTIONS

Q. Will these interconnects work on a .031" or .093" thick PC Board?

A. No, these interconnects are designed for use on .062" thick PC boards.

Q. How do the footprint layouts of Samtec's Q2™ connectors differ from the regular Q Strip™ footprint layouts?

A. The footprints for the Q2™ system are significantly different than those for the Q Strip™. They are not interchangeable.

Q. Where do the tightest tolerances on the footprint layout belong?

A. The tightest board tolerances are located from the center of the alignment feature to the center of the first position pad, pad-to-pad PCB thickness, the width of the alignment feature, and alignment of signal pads on top of board relative to those on the bottom.