

THTR

by ept

Through Hole Technology Reflow



ept - your connector solution

High Temp Connectors allow One Step Reflow Solder Process

THTR-connectors from ept for easy and cost efficient manufacturing of PC boards.

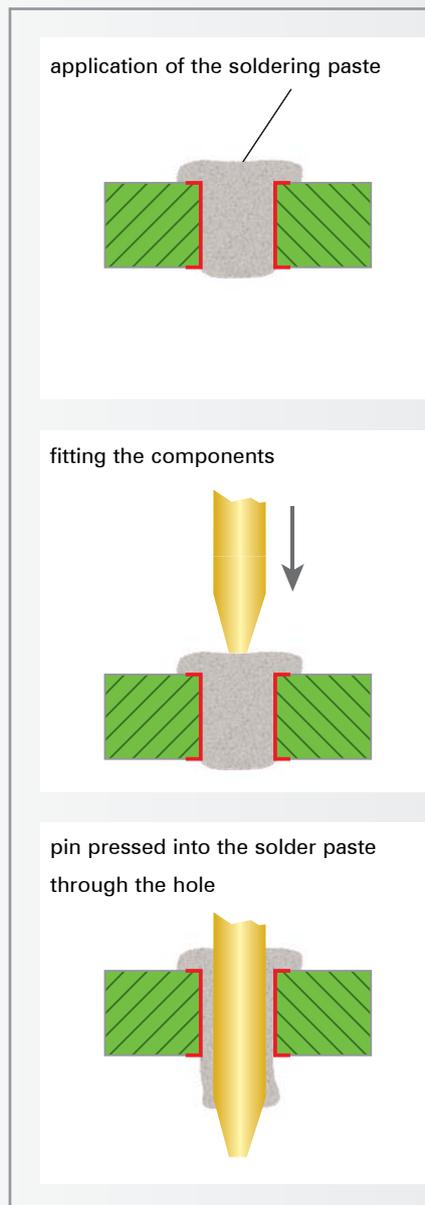
As manufacturers move to one step solder process using reflow techniques, normal through hole components don't meet the temperature demands required.

ept is pleased to announce the introduction of our high temp DIN 41612 connector series, THTR. The connectors are designed to withstand reflow temperatures and be soldered in the same production batch as other surface mount components on the PCB. This eliminates the need for additional solder operations like wave solder or press-fit.

In the past, the SMT components had to be assembled and reflow soldered, before in an additional process step the connector had been pressed into the PCB. Now the male or female connectors are soldered fully automated with the other components in the standard SMT process.

ept connectors in THTR are made from a high temperature resistant plastic, which fulfils the requirements of J-STD-020D (Moisture/Reflow Sensitivity Classification for Nonhermetic Solid State Surface-Mount Devices)

In accordance with RoHS compliance specifications, ept's THTR connectors are suitable for any lead free reflow solder process and are rated to a temperature peak up to 260° C.



THTR (Through Hole Technology Reflow) involves the following manufacturing steps:

First, the solder paste is applied to the PCB. This is done either with a silk print process, a dispenser, or a solder preform.

The SMD components are then placed onto the PCB. Finally, the connectors are placed into the holes, which are filled with solder paste.

In order to insure a quality reflow solder process, a uniform heat distribution is necessary to all solder locations.

Although the connectors have a higher volume and mass as other SMT components, a longer solder time is not required. ept's high temp THTR connectors are as completely reliable as conventional wave solder connections. Additionally, all visual inspection requirements of the international standards are met.

DIN connectors are widely used in many manufacturing environments with various termination methods to the PCB. ept also

offers additional DIN 41612 connectors for electronic applications, including press-fit technology.