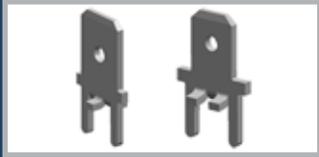


ZIERICK

ENGINEERED INTERCONNECTION SOLUTIONS

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FEATURES & BENEFITS

- For SMT or THT applications;
- Applicable for SMT reflow process or THT wave soldering;
- Designed for high volume automated placement;
- High retention forces;
- Shoulder on the part provides a stand-off for the mating part from the PCB;
- Retains typical through-hole Quick Disconnect Tab features;
- Tabs don't float during reflow;
- Designed for automation using the customer's existing pick and place equipment and a special feeder;
- Ideal for demanding applications.

SURFACE MOUNT / THROUGH HOLE TAB PART NUMBERS 6284 AND 6291

These hybrid tabs were designed for high volume automated placement on a Surface Mount PCB using the customer's existing pick and place equipment and a special feeder.

For Surface Mount use, a placement machine gripper picks up the hybrid tab and places the legs into the plated through-holes of a pre-pasted board. The hole size is important for solder flow.

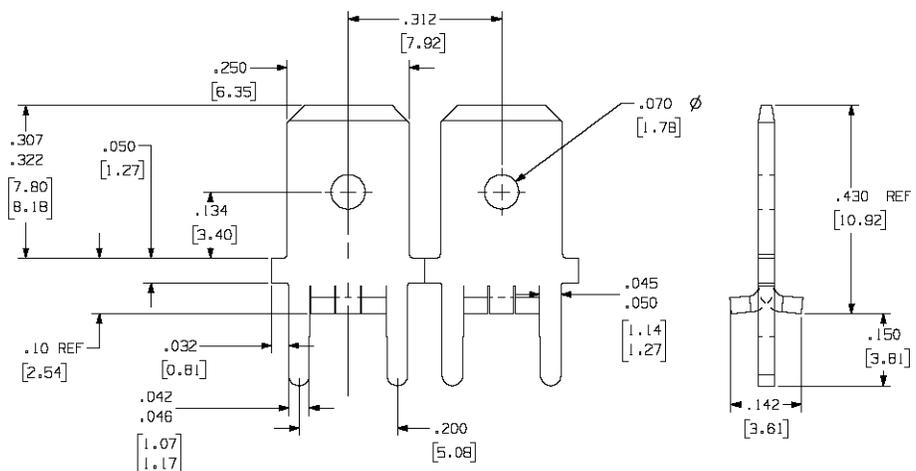
When the board is sent through the reflow oven, the solder is drawn down into the plated through-hole by capillary action, creating a solder connection between the legs and the pth. At the same time, the wings of the tab are soldered to the surface mount pads on the PC board.

The resulting terminal retention force

exceeds any single through hole or surface mount terminal force. Table 1 shows the strength of the soldered hybrid tab using this surface mount soldering technique. It is ideal for very demanding applications where the terminal is exposed to shock, vibration, and elevated temperatures.

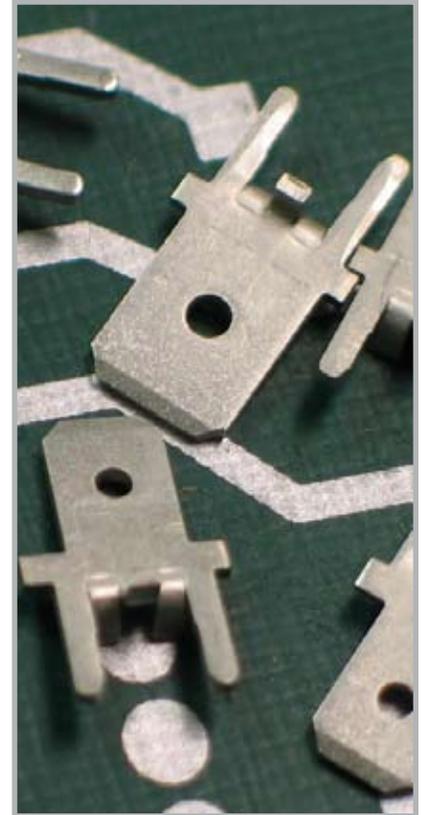
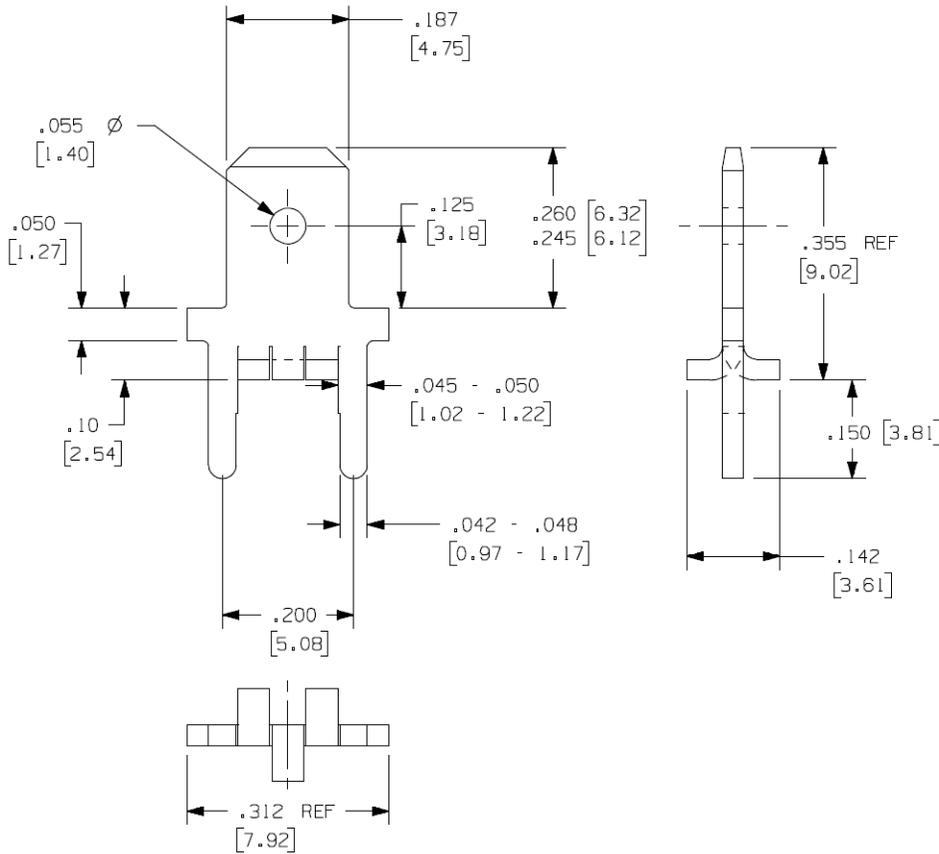
The Zierick hybrid tabs are also at home on a Through Hole PCB and can be automated with any of our high speed Automatic Insertion machines, such as the 9700 and the 9700 XY machines. The legs can be splayed for additional board retention. The terminal legs are slip-fit into the PCB holes and can be wave soldered. As with the SMT process, the wing feature of the base is placed over a matching solder pad on the PCB and can be surface mounted using the SMT process.

APPLICATION DRAWING: PN 6284



**SURFACE MOUNT / THROUGH HOLE TAB
PART NUMBERS 6284 AND 6291 (continued)**

APPLICATION DRAWING: PN 6291



SPECIFICATIONS

| | | |
|----------------------------|--|-----------------|
| Reeled Part Number | 6284 | 6291 |
| Hole Diameter | 0.070" (1.78mm) | 0.055" (1.40mm) |
| Material Thickness | 0.032" (0.81mm) | |
| Material Type | Brass | |
| Standard Finish | 100% Tin over Copper | |
| Feeder System (SMT) | Surf-Shooter SMT Continuous Strip Feeder | |
| Feeder System (THT) | Models 9700, 9700 XY | |
| U.S. Patent No. | 5,695,348 and other U.S. and International Patents | |

TABLE 1: TAB/QUICK DISCONNECT STRENGTH TESTS

Based on .250" Tabs

| Type of Tab | Soldering Process | Average Tensile Strength | Average Bend Force |
|-------------------------|------------------------|--------------------------|--------------------|
| THT Tab w/o Stable-Lok® | Wave Soldered | 58 Lb / 26.4 Kg | 8 Lb / 3.6 Kg |
| THT Tab w/ Stable-Lok® | Wave Soldered | 58 Lb / 26.4 Kg | 13 Lb / 5.9 Kg |
| SMT Tab | Surface Mount Soldered | 80 Lb / 36.4 Kg | 24 Lb / 10.9 Kg |
| SMT/THT Tab | Surface Mount Soldered | 166 Lb / 75.4 Kg | 26 Lb / 11.0 Kg |