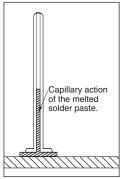


Zierick's surface mount terminals feature internal holes or slots at the base which foster a capillary solder wicking action for improved post reflow accuracy and joint strength.



As the industry's first surfacemountable connectors to be supplied on a continuous reel, Surf-Shooter SMT connectors are used as part of Zierick's patented Surf-Shooter SMT (Surface Mount Technology) Assembly System to simplify surface mount assembly. The complete Surf-Shooter SMT system feeds, separates, and presents the continuous format, surface-mountable connectors to the vacuum pick-up head of a new or existing placement system.

The continuous format design of the stamped Surf-Shooter SMT connectors eliminates the need for prepackaging that surface mount connectors typically come in. Even odd-form components can be fed to the placement system on continuous reels, eliminating hand assembly. For easy integration into customer assembly lines, the Surf-Shooter SMT Assembly System operates with virtually any standard placement system. Each Surf-Shooter SMT system consists of a feeder system and continuous Zierick connectors. Zierick will supply or modify feeders for virtually any SMT placement system.

- Zierick's Surf-Shooter SMT connectors are the first surfacemountable connectors to be supplied on a continuous reel, for easy feeding to the vacuum pick-up head of a placement system.
- Surf-Shooter SMT connectors are used within Zierick's Surf-Shooter SMT Assembly System to feed, separate, and present the continuous format connectors to the pick-up head.
- Surf-Shooter SMT connectors eliminate plastic pre-packaging due to their continuous format design.
- The Surf-Shooter SMT Assembly System operates with virtually any standard flexible placement system.
- Available in 16mm and 24mm tape format.

Eliminates hand assembly of odd-form components.

Continuous Surf-Shooter SMT connectors are separated and presented to the vacuum pick-up head.

Connectors are supplied on continuous reels, eliminating expensive and wasteful plastic prepackaging.



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Surface Mount Pins and Posts

Surf-Shooter SMT pins and posts are specially designed for high-reliability PCB interconnection applications. They are available in 0.025" square (0.64mm), 0.040" (1.02mm), 0.043" (1.09mm), 0.060" (1.52mm), and 0.080" (2.03mm) diameters.

To increase interconnection reliability, they utilize the capillary action of reflowing solder to improve solder joint strength. Pull-force tests reveal that a post with proper capillary action has much higher retention to the printed circuit board than a post without the capillary action feature.

The higher retention force is attributable to two conditions:

1) The first is the very thin layer of solder between the base of the pin and the solder pad. Solder is a weak alloy with a low yield stress. A thicker layer of solder will fail before a thinner layer will. Solder behavior is analogous to that of adhesive: undeniably a thinner layer of adhesive bonds more strongly than a thicker layer.

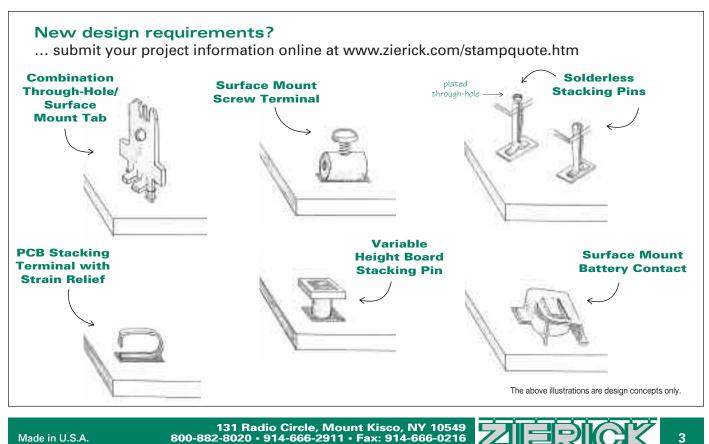
2) As the solder paste reflows, flux and other active ingredients in the solder cause outgassing. These gasses get



trapped under a relatively large surface like the base of the pin. The trapped gasses create voids in the solder that are clearly visible when the pin is pulled off or the solder joint is cross-sectioned. Pins that employ capillary action have fewer and smaller voids because the capillary tube provides a way for gasses to escape. Cracks in solder joints develop from such voids during thermal cycling. Field evaluations show that posts with enhanced capillary action are more resistant to the effects of thermal cycling.

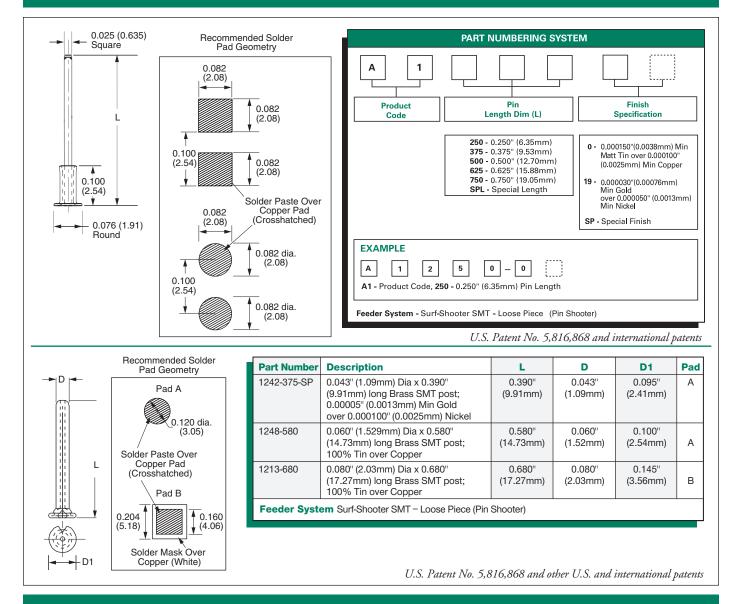
Application Design Concepts

ENGINEERED INTERCONNECTION SOLUTION

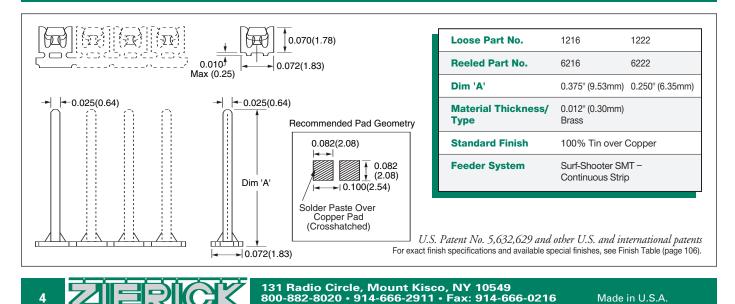


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Surface Mount Pins



0.025" (0.635mm) Surface Mount Post



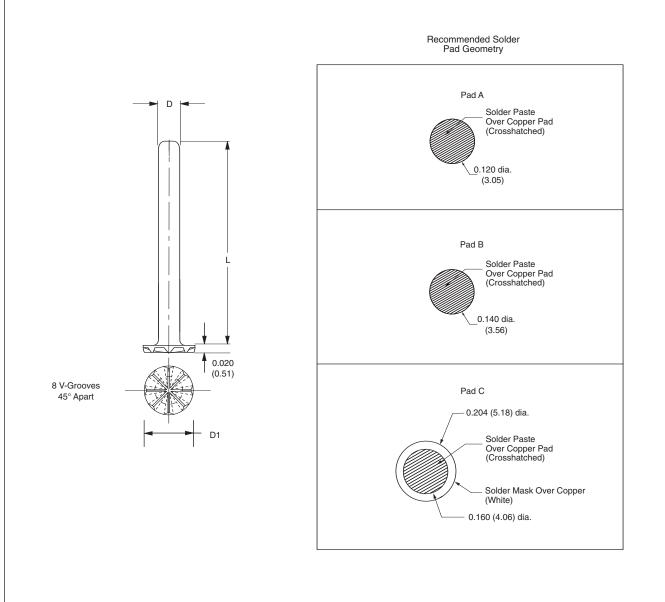
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ENGINEERED INTERCONNECTION SOLUTIONS

Surface Mount Solid Pins

Part Number	Description	L*	D	D1	Pac
A2-680	0.040" (1.02mm) Dia x 0.680" (17.27mm) long Copper solid SMTpost; 100% Tin over Copper	0.680'' (17.27mm)	0.040" (1.02mm)	0.095"±0.005" (2.41mm ±0.127mm)	А
A3-680	0.060" (1.52mm) Dia x 0.680" (17.27mm) long Copper solid SMT post; 100% Tin over Copper	0.680'' (17.27mm)	0.060" (1.52mm)	0.120"±0.005" (3.05mm ±0.127mm)	в
A4-680	0.080" (2.03mm) Dia x 0.680" (17.27mm) long Copper solid SMT post; 100% Tin over Copper	0.680'' (17.27mm)	0.080'' (2.03mm)	0.140"±0.010" (3.56mm ±0.254mm)	с

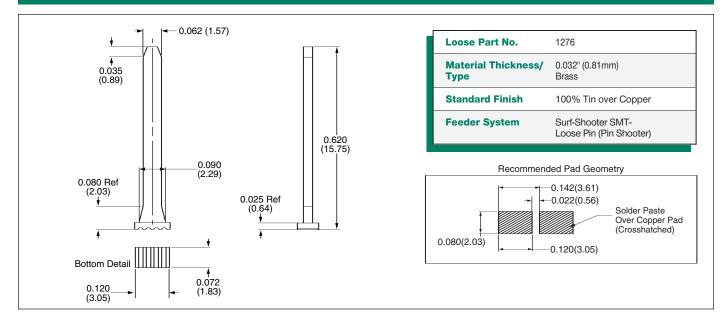
* Additional Pin Lengths available upon request. Please consult factory.



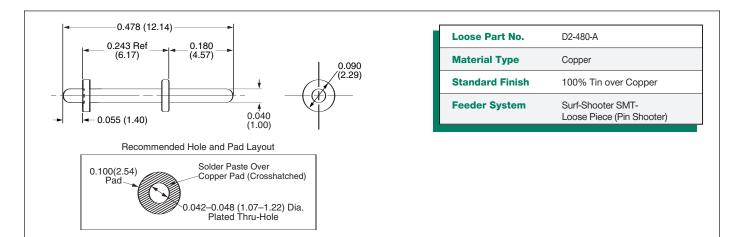


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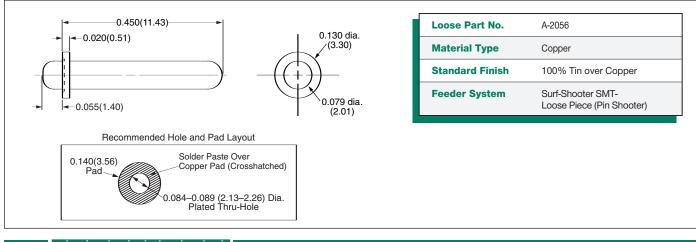
SMT Post



SMT Shoulder Pin

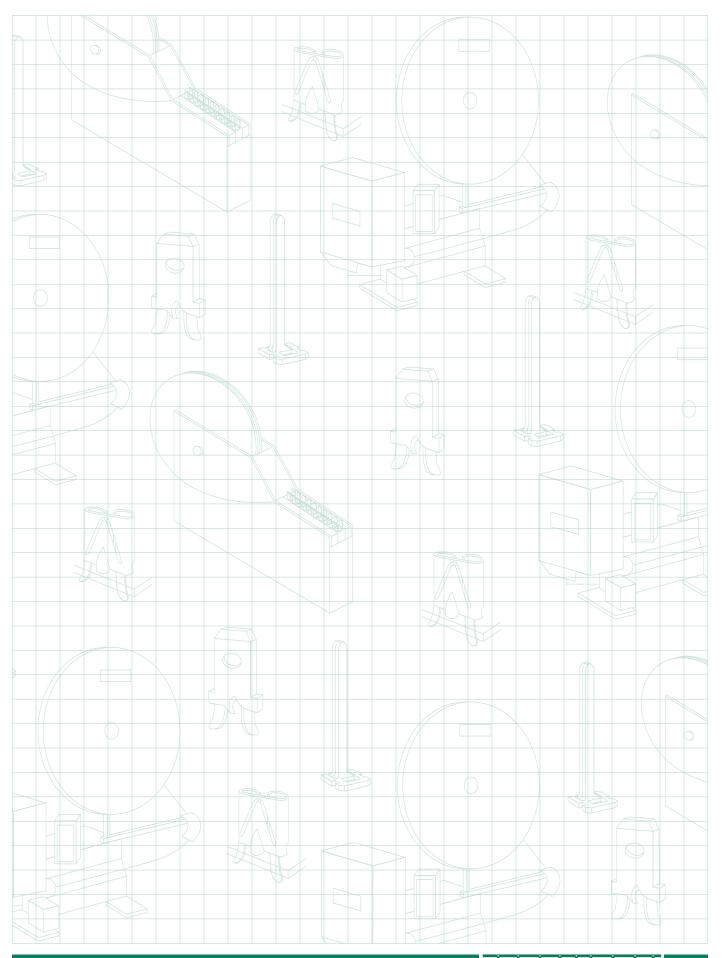


SMT Shoulder Pin



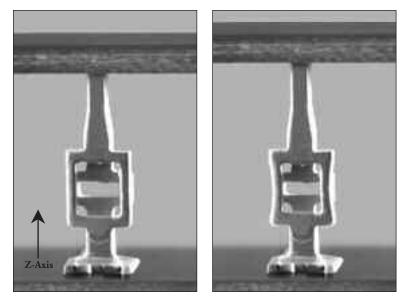


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A primary benefit of the SMT Z-Axis Compliant Pin is its ability to hold a strong, accurate connection under extreme temperature changes. Its Z-Axis (axial) compliancy is designed to compensate for thermal expansion and contraction.

As temperatures cause boards to shift, the pin compensates for separation, and holds a stronger, more dependable connection. The pin's unique, flexible center-frame design actually expands or contracts in response to changes in board orientation.

Note: Degree of physical change to pin has been enhanced and exaggerated for demonstration purposes.

Zierick integrates the automated manufacturing process with the reliability and quality of precision placement in the SMT Z-Axis Compliant Pin.

Providing Z-Axis (axial) compliancy, the Z-Axis pins compensate for thermal expansion and contraction, creating a more consistently dependable connection.

Uniquely designed for production in a continuous reel format, the SMT Z-Axis Compliant Pin optimizes automation, and with the Surf-Shooter SMT Feeder System, allows precision placement while using existing pick and place equipment. Z-Axis Compliant Pins can be placed on 0.100" x 0.120" on-center applications, making them ideal for parallel stacking applications.

Zierick designed the Z-Axis Compliant Pin to take advantage of capillary action, a process in which a more complete, more stable solder connection is established, providing superior joint strength and more reliably perpendicular pins.

The Z-Axis pins are manufactured using 0.012" (0.30mm) thick copper, and feature a 100% tin over copper finish.

Benefits

Zierick's SMT Z-Axis Compliant Pin:

Increases PCB design flexibility.

- Compensates for thermal expansion and contraction through axial compliancy
- Consumes minimal real estate

Optimizes automation.

- Uses existing placement equipment with a Zierick Surf-Shooter SMT Feeder
- Enables the random placement of individual pins
- Allows for pin placement on 0.100" x 0.120" on-center applications

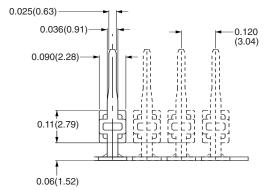
Allows for a better connection.

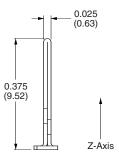
- Maximizes solder joint strength through utilization of capillary action
- Ensures that pins are reliably perpendicular
- Enhances geographical stability with high locational tolerances

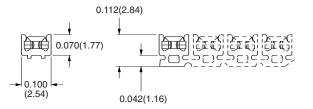


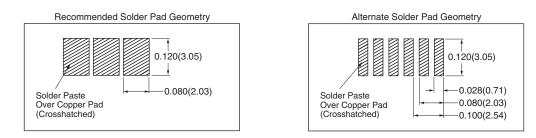
SMT Z-Axis Compliant Pin

Loose Piece Part No.	1264
Reeled Part No.	6264
Material Thickness/Type	0.012" (0.30mm) Copper
Standard Finish	100% Tin over Copper
Feeder System	Surf-Shooter SMT Continuous Strip Feeder











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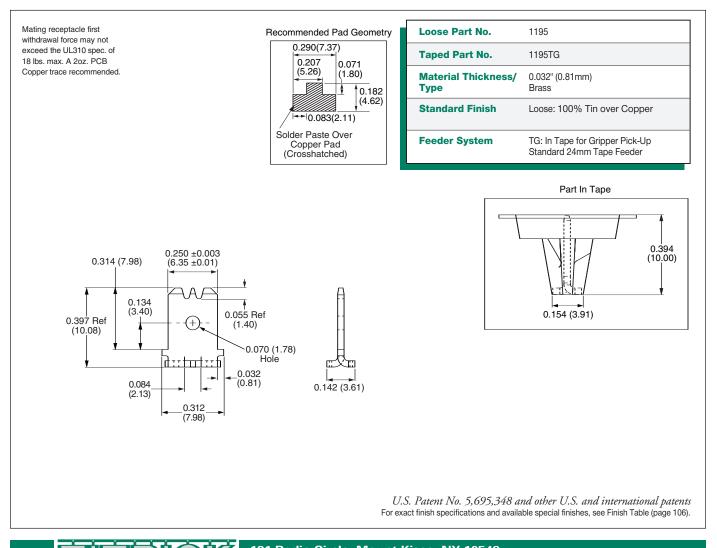
SMT Tabs/Quick Disconnect Terminals



Zierick's family of Surface Mount Quick Disconnect Tabs are now easier than ever to use. They are supplied on reels for easy application by our Surf-Shooter SMT Feeders, in loose piece for lower volumes, or in Surface Mount Tape Pockets.

Our Surface Mount Quick Disconnect Tabs in Tape Pockets are designed for easy pick-up by your existing placement system in two ways: we can offer Tape Pockets for Gripper pick-up (TG) or for Nozzle Pick-Up (TZ). For other requirements, please consult the factory.

SMT 0.250" (6.35mm) Tabs/Quick Disconnect Terminals

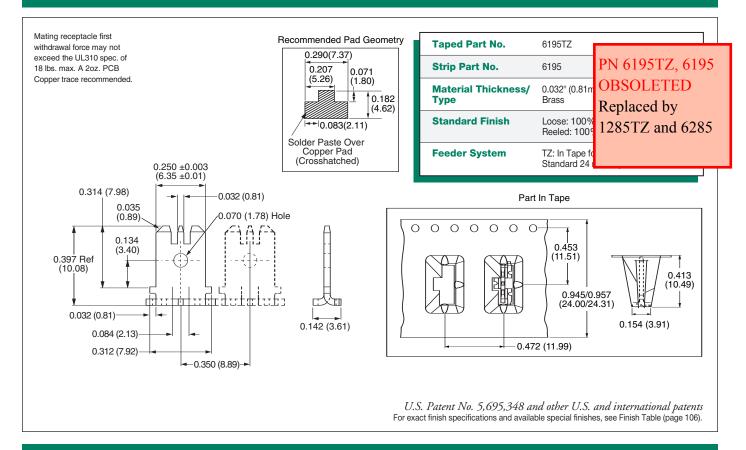




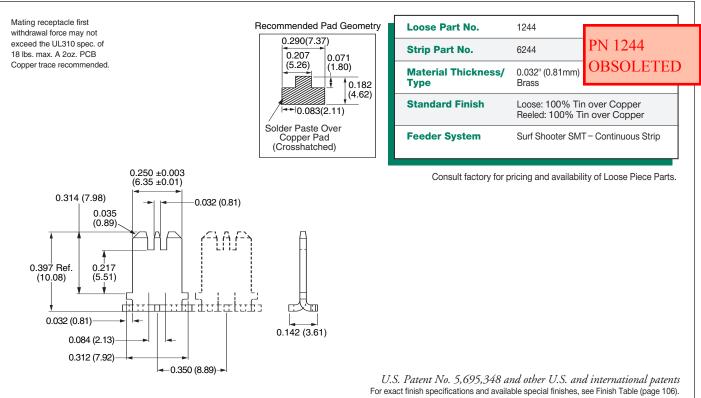
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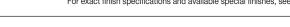
ENGINEERED INTERCONNECTION SOLUTIONS

SMT 0.250" (6.35mm) Tabs/Quick Disconnect Terminals



SMT 0.250" (6.35mm) Tabs/Quick Disconnect Terminals





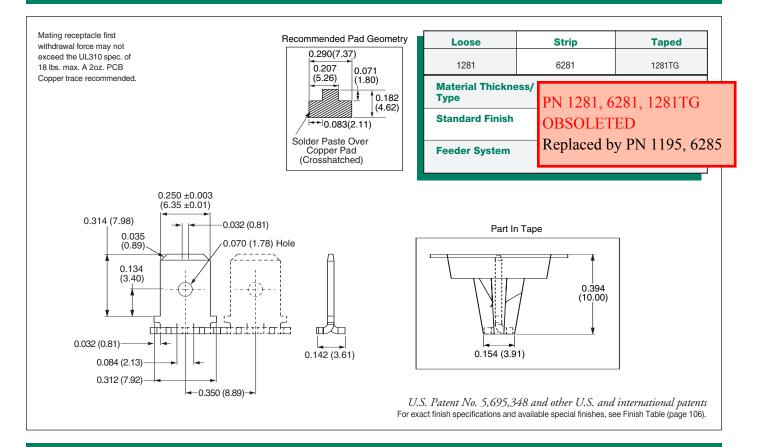


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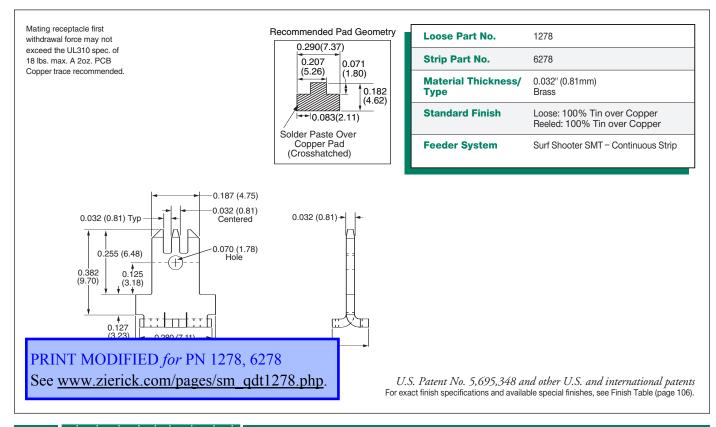
11

ENGINEERED INTERCONNECTION SOLUTIONS

SMT 0.250" (6.35mm) Tabs/Quick Disconnect Terminals



SMT 0.187" (4.75mm) Tabs/Quick Disconnect Terminals





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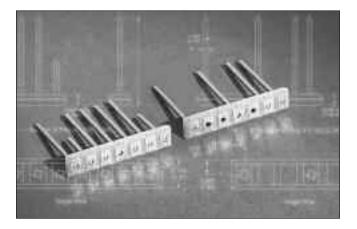
Surface Mount Pin Headers

Zierick's unique header assembly features capillary action to improve solder joint strength. As a result, pin retention force is 50% higher than that of J-Lead type headers. As the capillary action draws the solder, it pulls the header assembly tightly to the PCB. At the same time, co-planarity problems are eliminated because the force generated by the capillary action also pulls the header into proper position over the solder pad – even if the part has been placed off-center.

A circular solder pad on top of the board and a square solder pad on the bottom are connected to the conductive wall of the plated through-hole. The size of the hole is such that it holds the square pin in place, yet leaves four cavities defined by the flat side of the pin and the curved wall of the hole. The cavities promote capillary action by drawing most of the melted solder up through the cavities where it forms a ring at the top side of the header assembly board. This solder ring is a visual indication that the reflow process is perfect and complete.

Further, because the header base is made of the same material as the PCB, there are no thermally induced stresses on the solder joint—long-term reliability is guaranteed. In addition, deep score lines run across both sides of the header base. The assembly is very flexible and can accommodate board warpage without weakening connections.

To meet varying application requirements, Zierick headers are available with pins missing at specified positions or



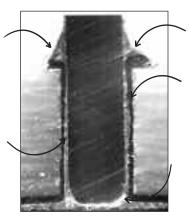
with pins of different lengths and sizes. Pins are offered in brass or copper, and optional configurations are available.

Features and benefits of Zierick headers:

- Co-planarity problems eliminated
- Minimal real estate required on board
- 50% higher pin retention force
- Optional configurations Single row Dual row Horizontal Matrix
- More forgiving board placement tolerances
- Visual indicator assures quality processing
- Highest resistance to thermal shock and thermal cycling due to material selection

The melted solder rises through the cavities and forms a ring at the top.

The capillary action provided by the four cavities (formed between the pin and plated through-hole) will pull up the melted solder, resulting in a stronger solder joint.



This ring indicates that the reflow process is complete.

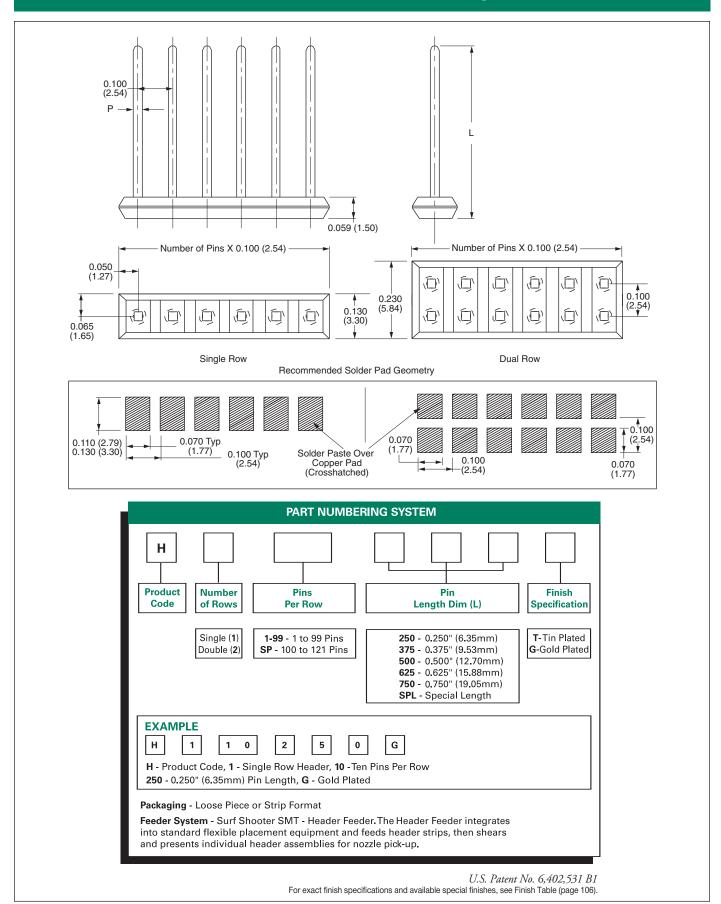
The pin is soldered into the plated through-hole at the same time the header is soldered to the PC board.

The force which pulls the melted solder into the cavities will also pull the header board assembly and the PCB together.





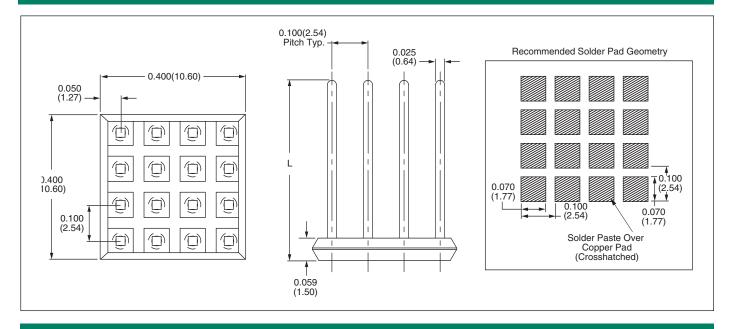
0.025" (0.635mm) Square SMT Pin Headers



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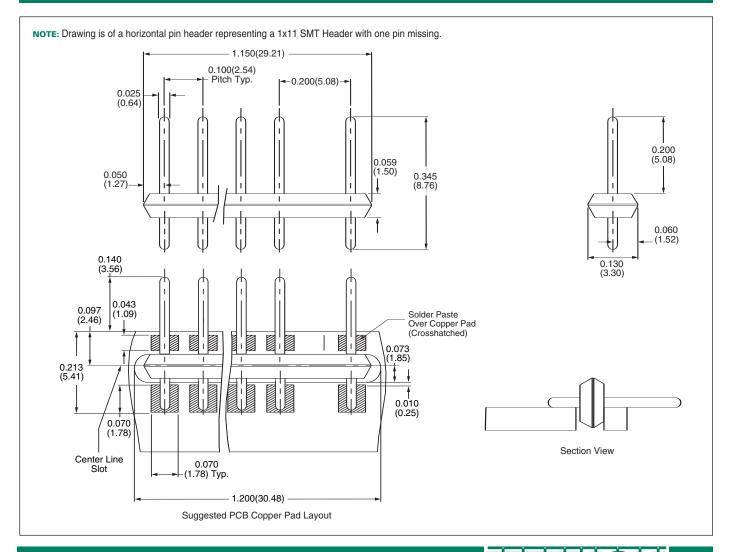
14

SMT Pin Matrix Headers



SMT Horizontal Pin Headers

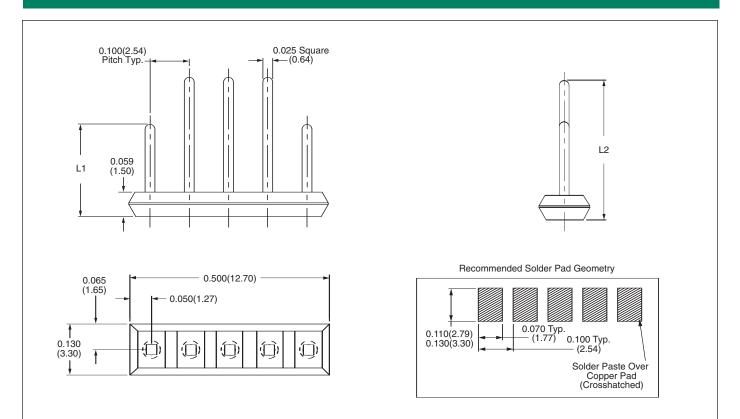
ENGINEERED INTERCONNECTION SOLUTIONS



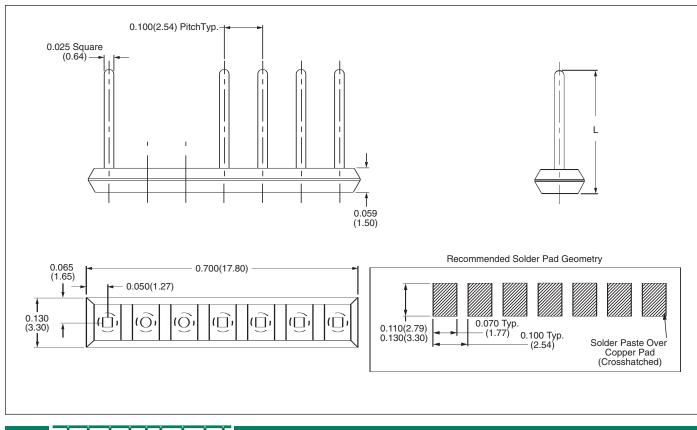


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SMT Variable Length Pin Headers



SMT Missing Pin Headers



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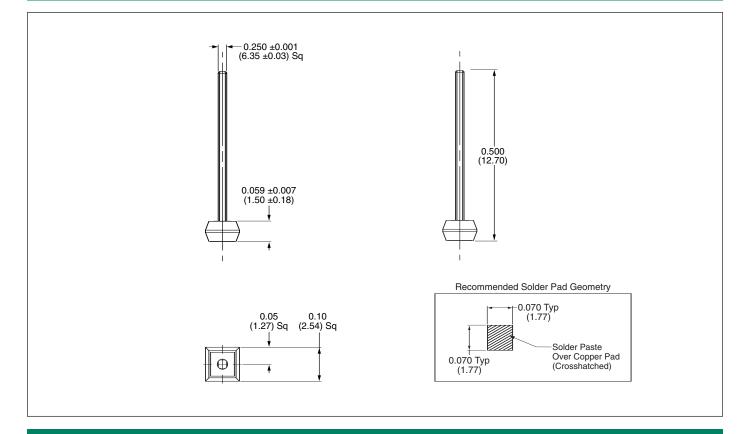
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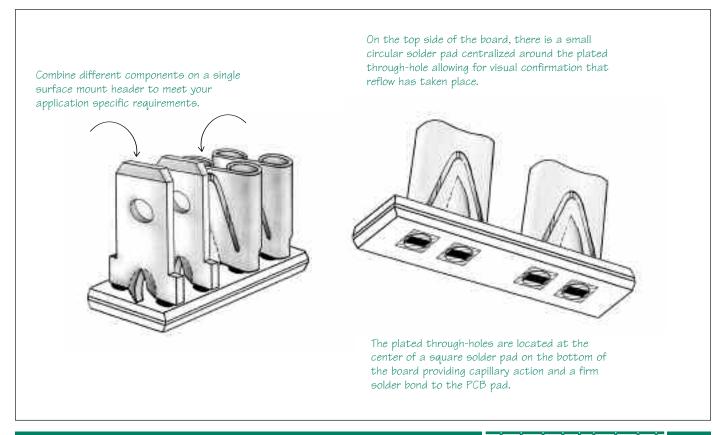
ENGINEERED INTERCONNECTION SOLUTIONS

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SMT One Pin Header



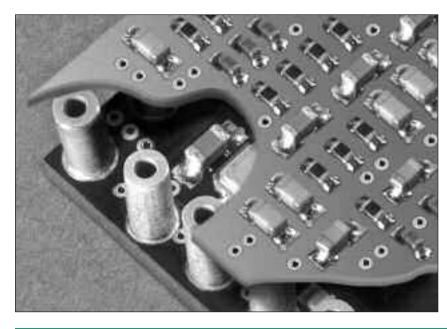
SMT Tab and Receptacle Headers



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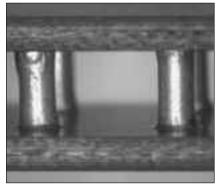
17

SMT Board Stacking Connectors



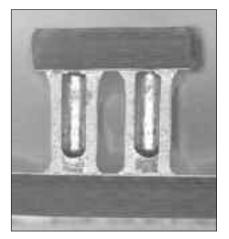
Zierick's Board Stacking Connector allows for more PCB design flexibility and more room for additional components.

The Board Stacking Connector joins the mother and daughter board with surface mount technology on both boards.



Zierick has applied the benefits of capillary action to our newest interconnect product — the Board Stacking Connector. This unique connector surface mounts to both the bottom and the top of a PCB, allowing for the connection of a mother and daughter board without through-hole pins. The result? Greater PCB design flexibility, more cost-efficiency and a higher quality connection.

Available in bulk, on pallets or on SMT tape, the Board Stacking Connectors use minimal real estate, allowing additional components to be placed on the PCB. They are self-centering and offer co-planarity within 0.001", virtually eliminating any alignment problems. Plus, they have low contact resistance and a high current rating to meet today's modular power requirements. The Board Stacking Connector uses capillary action to provide superior solder joint strength for a more reliable connection. The connectors are first surface-mounted to the mother board. After reflow, the PCB with the connectors are surface-mounted to the daughter board.



Benefits

Zierick's Board Stacking Connector:

Provides a cost-efficient board stacking solution.

- Surface-mounts to the bottom and top of a PCB for a stronger mother board-daughter board connection
- Uses existing placement machines; no need for new insertion systems

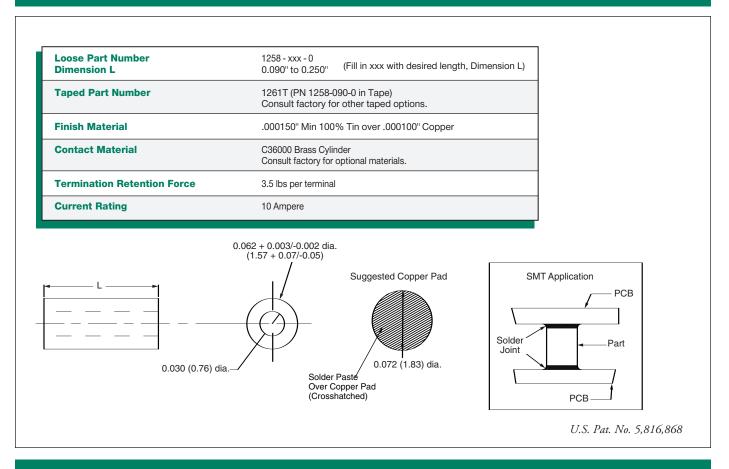
Increases PCB design flexibility.

- Uses minimal real estate, allowing for more components to be placed on the PCB
- Eliminates the need for throughhole pins

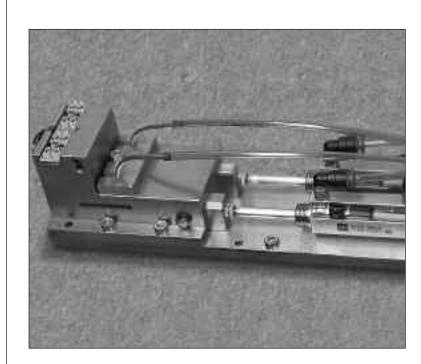
Allows for a better connection.

- Provides low contact resistance, high current rating and co-planarity within 0.001"
- Uses capillary action for a stronger solder joint

SMT Board Stacking Connectors



Surf Shooter SMT Board Stacking Connector Feeder



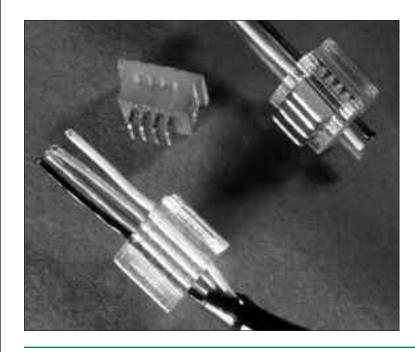
The Surf Shooter SMT Board Stacking Connector Feeder is designed to mount to a flexible placement system (flex cell) and present the SMT component at feed rates greater than 3 connectors/second. Parts are fed into an escapement where compressed air pushes the board stacking connector into a reservoir that presents the component to the placement system vacuum nozzle.

The unit is compact, less than 4" wide, and easily mounts to the placement system feeder bay. The feeder itself is a self-contained unit, $110 V_{AC}/80$ psi, typically requiring no electronic control interface with the placement machine.

The feeder is designed specifically to accommodate the new connectors. High-speed feeders are available for most placement systems.

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Zierick offers its newest insulation piercing connector — the SMT Fine Wire Connector. This connector offers a cost-efficient, reliable solution for solid, stranded or tinsel wire terminations. By allowing reliable onestep multiple wire termination within a plastic housing, the connector reduces assembly costs and provides a more durable wire connection.

Design

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Zierick's Fine Wire Connector design builds on Insulation Piercing Connector (IPC) technology, which is the ideal method for wire termination. IPC technology allows multiple wires to be terminated simultaneously without being stripped first.

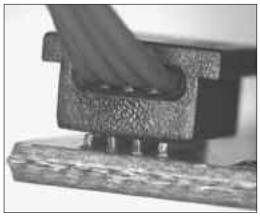
This fine wire IPC connector features a unique design of four wire housing holes and four individual piercing blades that can accommodate solid, stranded or tinsel wire. The piercing blades are made to go in one direction only, and maintain a continuous force on each wire. Its durable plastic housing provides excellent wire retention.

Assembly Process

First, these IPC connectors are surface mounted to the PCB. After reflow, the insulated wires are inserted into the holes of the housing. Force is then applied to the top of the plastic housing and the piercing blades cut through the insulation and penetrate into the wire core—completing the wire connection process.

Zierick's Fine Wire Connectors can efficiently terminate a number of wires all at once.

The reliability of the connector assures wire retention and eliminates the need to solder wires directly to the PCB.



Benefits

Zierick's SMT Fine Wire Connector:

Saves you labor time and costs.

- Eliminates the need to solder wires to the PCB
- Allows for the efficient termination of multiple wires at the same time

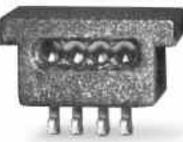
Gives you a higher quality termination.

- Maintains consistent pressure on the wires for better conductor contact
- Provides superior retention to the board

Provides a more cost-efficient solution.

- Uses minimal PCB real estate
- Offers the least expensive method for wire termination

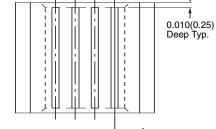
The piercing blades accommodate solid, stranded or tinsel wire, and are designed to maintain a continuous force on each wire.

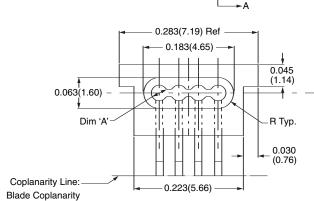


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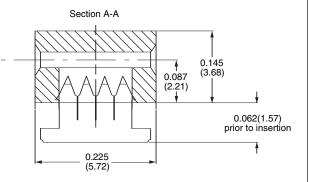
Physical			
Loose Part No.	IPC-4	IPC-4-45	
Taped Part No.	IPC-4-T	IPC-4-45T	
Dim 'A'	0.035(0.89)	0.045(1.14)	
Wire Gauge & Insulation Diameter	From 32 AWG to 28 AWG solid, stranded or tinsel wire; with insulation diameter 0.025" – 0.032"	From 32 AWG to 26 AWG solid with insulation diameter 0.033" IPC-4-45 has an ID chamfer in t	- 0.043"
Contact Plating	0.000150" Min 100% Tin over .000100 Min Copper		
Termination Force	Approx. 80 lbs (for 4 wire)	Insulation Material	PPS GS-40 40% glass filled
Contact Material	CDA 260 Brass	UL Flammability Rating	94V-0
Markings	Z (Zierick logo) and cavity number	Color	Black
Electrical			
Current Rating/ Wire Size	28 AWG 1.5 Amp., 30 – 32 AWG 1 Amp.	Insulation Resistance	> 1 x 10 ⁹ Ω @ 500 VDC
Contact Resistance	> 20 mΩ	Withstanding Voltage	500 VRMS @ Sea Level
Environmental			
Reflow Temperature	446° F Max 230° C Max	Operating Temperature	-67° F to 221° F (-55° C to 105° C)
0.04	H0(1.02)Typ. I≪→I	1	Γ Copper Pad ← 0.030(0.76)





to be within 0.005(0.13)

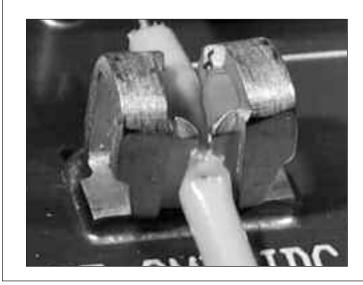
Solder Paste Over Copper Pad (Crosshatched) 0.211 (5.36) ł ► 0.040(1.02)Typ.



U.S. Patent(s) pending

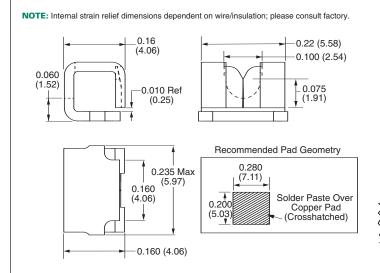


SMT IDC



Zierick's Surface Mount IDC was designed to be a more cost-effective way to terminate a wire because it eliminates the need for hand-soldering wires to the PCB. It was also designed to be automated by the customer's existing pickand-place equipment using standard taping methods or a special feeder. This is a surface mount version of a proven through-hole version. It is re-usable, has a low profile, and is geographically stable. Our family of SMT IDCs can terminate a large range of wire gauges. It has a proven track record for withstanding shock and vibrations associated with automotive applications.

SMT IDC Wire Connectors

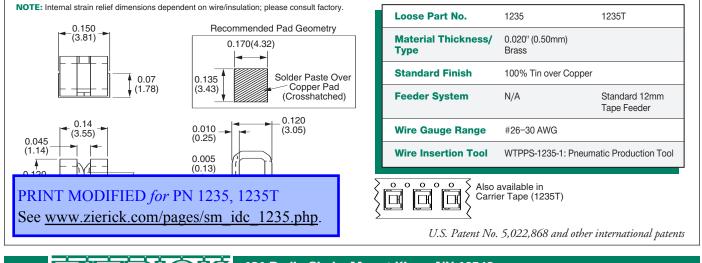


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ENGINEERED INTERCONNECTION SOLUTIONS

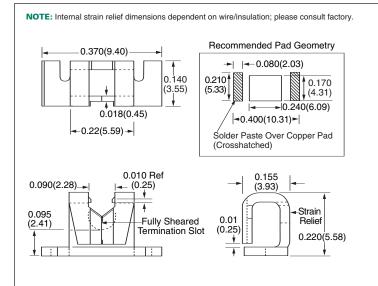
Loose Part No.	1245	1245T
Material Thickness/ Type	0.025" (0.64mm) Brass	
Standard Finish	100% Tin over Copper	r
Feeder System	N/A	Standard 12mm Tape Feeder
Wire Gauge Range	#26-18 AWG	
Wire Insertion Tool	WTP-4ALL: Prototype WTPPS-1208-1: Pneu	
	available in er Tape (1245T)	

U.S. Patent No. 5,022,868 and other international patents



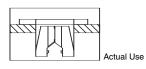
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Reverse Mount SMT IDC



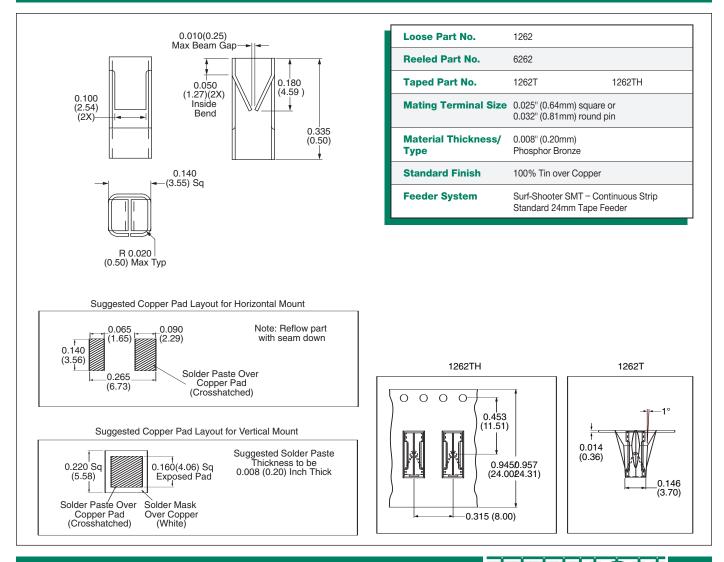
Loose Part No.	1227
Reeled Part No.	6227
Material Thickness/ Type	0.032" (0.81mm) Brass
Standard Finish	100% Tin over Copper
Feeder System	Surf-Shooter SMT- Continuous Strip
Wire Gauge Range*	#26-18 AWG

*Note: Wire insertion tool required. Consult factory.



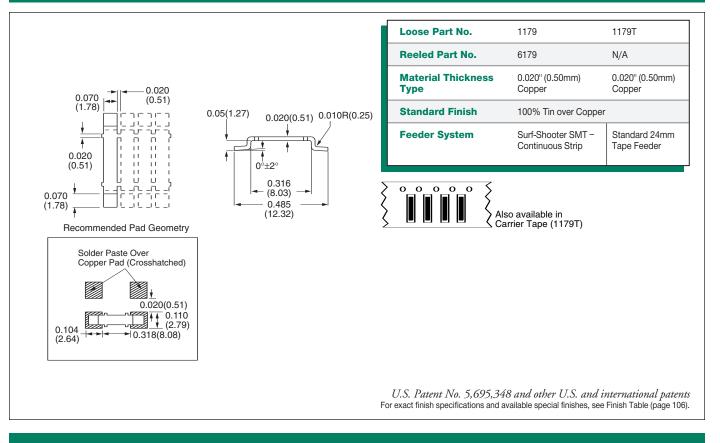
U.S. Patent No. 5,022,868 and other international patents

SMT Wire Gripper

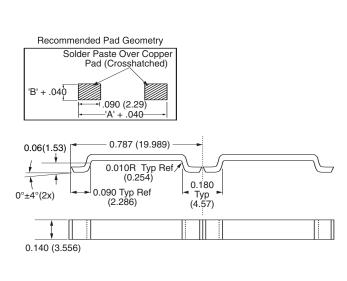


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SMT Jumper



SMT (Variable Size) Jumper



No additional charge for any other length jumper up to 2". Standard width for all lengths is 0.140". Consult factory for other widths and for feeder.



	Dim 'A'	Dim 'B'	Corres. part no.
Minimum	0.300" (7.62mm)	0.075" (1.91mm)	6233-300-075
Maximum	1.500" (38.1mm)	0.200" (5.08mm)	6233-1500-200

Where Dimension 'A' = jumper length and Dimension 'B' = jumper width



Also available in Carrier Tape for 6233-787-140-T

U.S. Patent No. 5,695,348 and other U.S. and international patents For exact finish specifications and available special finishes, see Finish Table (page 106).

Different lengths and widths are available-please consult factory.



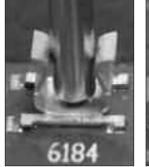
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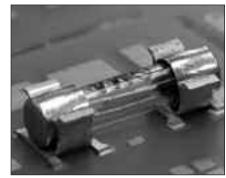


Surface Mount Box Receptacles provide placement flexibility to suit a variety of applications.

Zierick's versatile Universal Tab Receptacles and SMT clips are all designed for maximum durability and stability.







Zierick's family of SMT receptacles provides a range of options designed to lower manufacturing costs, simplify assembly, and increase productivity. In addition to Standard Receptacles, Zierick recently expanded its product line with Surface Mount Box Receptacles, increasing your options for flexibility and compatibility.

Standard Surface Mount Receptacles:

- The 1237 top-entry Universal Tab Receptacle
- The 1238 bottom-entry Universal Tab Receptacle

Both Standard Receptacles accommodate a mating terminal size of 0.025" (0.64mm) to 0.032" (0.81mm) thickness. The receptacles will tolerate a lateral misalignment of $\pm 0.012"$ (0.30mm), and an angular misalignment of $\pm 10^{\circ}$. Constructed of brass, the receptacles have a material thickness of 0.016"(0.41mm) and have a standard finish of 100% tin over copper.

Surface Mount Box Receptacles:

- The 1266, which accepts top-entry or an alternative bottom-entry to mate with a through-board pin
- The 1277 accepts top- or bottomentry, and can be placed in either vertical or horizontal position
- The 1262, which offers traditional placement, and can be placed upside-down for bottom-entry. A special version of this terminal can be used in a wire gripper application to grip and hold a 14 AWG wire

The flexibility of these receptacles provides a number of important benefits in addition to placement and entry options. A small footprint and low insertion force ensure efficiency of use. Twelve or more available mating cycles increase productivity in demanding environments. Continuous reel production eliminates time-consuming hand placement and expensive fixturing by utilizing the Surf-Shooter SMT Feeder and existing placement systems. Zierick's innovative surface mount technology ensures reliable mounting on all of our receptacles.

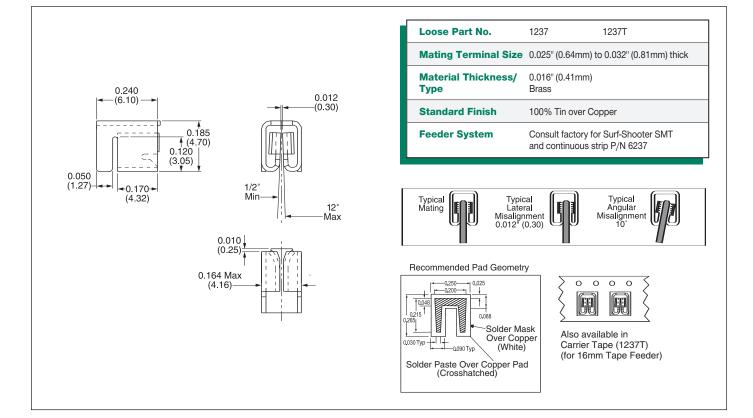
Surface Mount Clips

Zierick's SMT Receptacle family of products also includes SMT Clips — A versatile line of receptacles with Surf-Shooter SMT continuous strip compatibility.

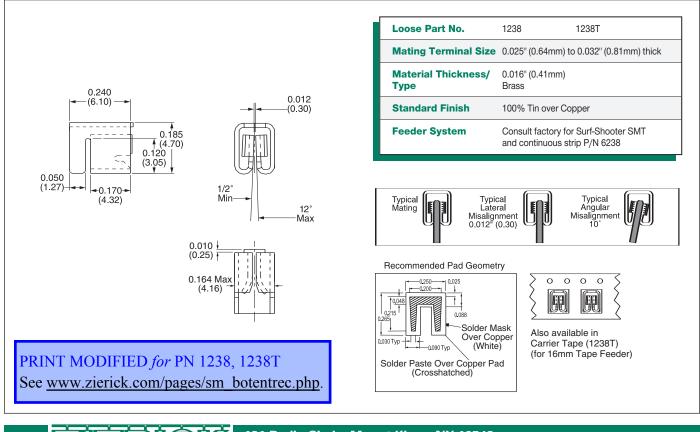
The Snap-In Fuse Clip employs a spring-loaded mounting leg, and is proven to display increased retention, strength, and durability while withstanding side loading and rough PCB handling. Both Snap-In and Standard Fuse Clips are available in loose-piece format — with or without integral fuse stops — for 1/4" (6.35mm) and 0.197" (5mm) cylindrical fuse styles.



SMT Top- or Horizontal-Entry Universal Tab Receptacle



SMT Bottom- or Horizontal-Entry Universal Tab Receptacle

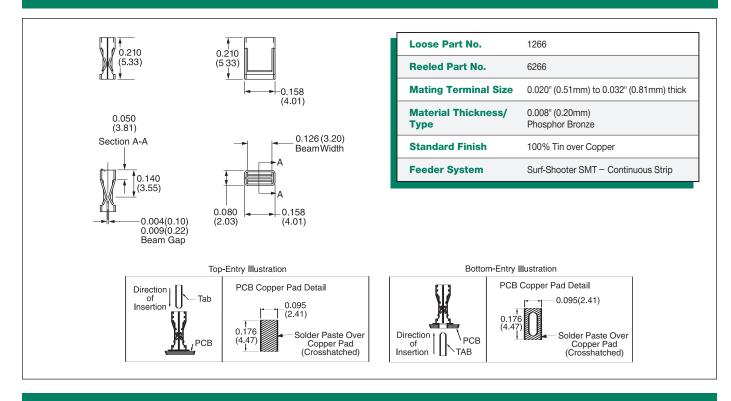


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Made in U.S.A.

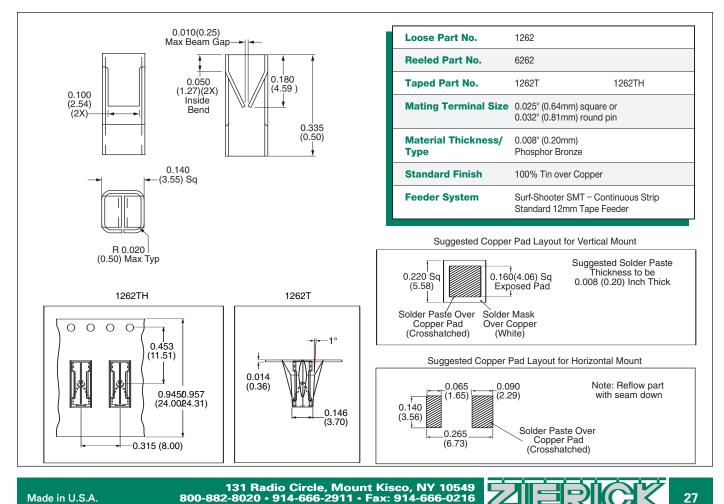
ENGINEERED INTERCONNECTION SOLUTIONS

SMT Dual Entry Box Receptacle



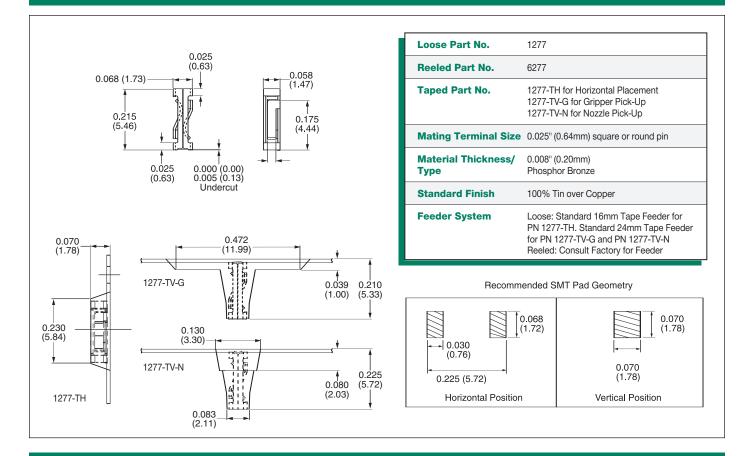
SMT Top- or Bottom-Entry Box Receptacle

ENGINEERED INTERCONNECTION SOLUTIONS

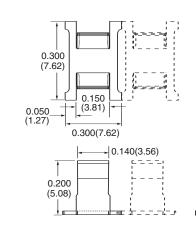


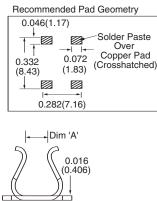
www.zierick.com

SMT Vertical or Horizontal Box Receptacle



SMT Clips





	5mm Fuse Clip	Connector
Loose Part No.	1230 1230T	1184 1184T
Reeled Part No.	6230	6184
Dim 'A'	0.165" (4.19mm)	0.090" (2.29mm)
Material Thickness/ Type	0.016" (0.40mm) Phosphor Bronze	
Standard Finish	100% Tin over Co	oper
Feeder System	Surf Shooter SMT –	Continuous Strip



Also available in Carrier Tape (1230T or 1184T) (for 16mm Tape Feeder)

PRINT MODIFIED for PN 1230, 1230T, 6230, 1184, 1184T, 6184

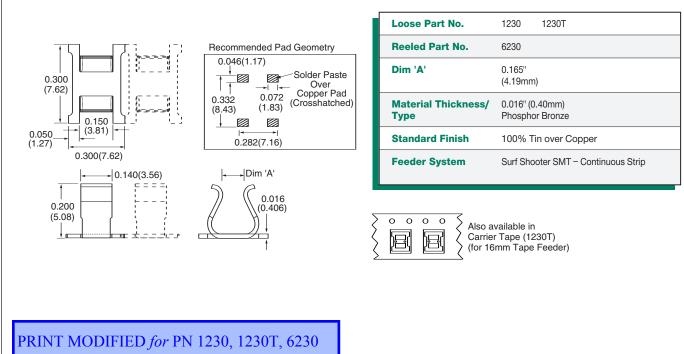
See www.zierick.com/pages/sm clips 1230.php.

5,695,348 and other U.S. and international patents ations and available special finishes, see Finish Table (page 106).



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5mm Round Fuse Receptacles

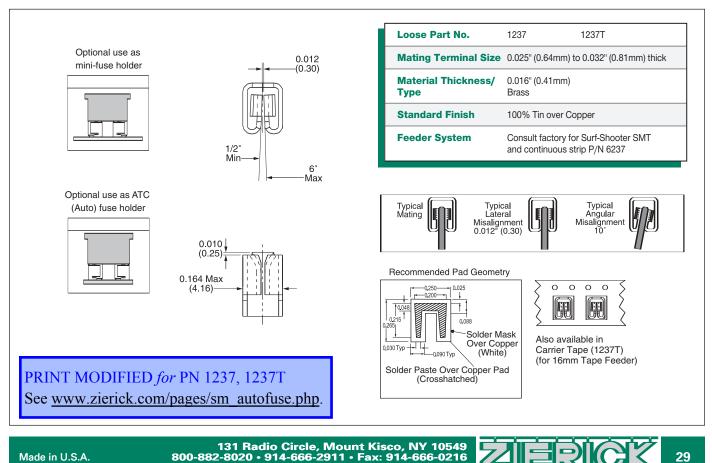


See www.zierick.com/pages/sm clips 1230.php.

U.S. Patent No. 5,695,348 and other U.S. and international patents For exact finish specifications and available special finishes, see Finish Table (page 106).

Auto Fuse Receptacle

ENGINEERED INTERCONNECTION SOLUTIONS



www.zierick.com

SMT Bottom Entry, Through-Board Socket

As part of the SMT Receptacle line of products, Zierick's SMT Socket delivers high performance, flexibility, and a number of other benefits, all in an extremely compact size for a through-board socket.

Designed to handle high current ratings — up to 7 amps — this small footprint, low profile receptacle delivers significant reliability for surface mount application needs.

Another primary benefit of the SMT Socket is its flexibility. Its superior capacity accommodates either a power or signal connection. With the ability to handle a high number of mating cycles, it is ideal for demanding production environments and high density applications.

The SMT Socket's versatility is also demonstrated through its compatibility. Mating pin sizes for the SMT Socket include 0.025" square and 0.027" to 0.032" diameter round pins. The material is 0.005" thick beryllium copper with a bright tin finish.

The SMT Socket is available in tape and reel, allowing the use of a standard pick-and-place tape feeder, and taking advantage of Zierick's ability to provide quality parts in a standard taped pocket format. The socket is also available in bulk.



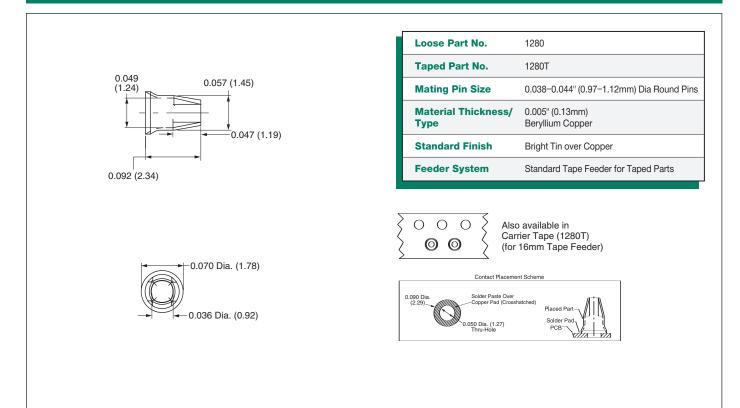
The SMT Socket 1260 offers a bottom-entry, through-board connection with a small footprint and the ability to handle high current ratings-up to 7 amps.

SMT Bottom Entry, Through-Board Socket

	Loose Part No. 1	260
0.048 (1.22)	Taped Part No. 1	260T
0.057 (1.45)		.025" (0.64mm) Square or 0.025" (0.64mm) o 0.032" (0.81mm) Dia Round Pins
60°+/-3 0.047 (1.19)		.005" (0.13mm) Beryllium Copper
	Standard Finish E	Bright Tin over Copper
0.087-0.097		
(2.20–2.46)	Feeder System S	tandard Tape Feeder for Taped Parts



SMT Bottom Entry, Through-Board Socket



SMT Bottom Entry, Through-Board Socket

