Product-Information

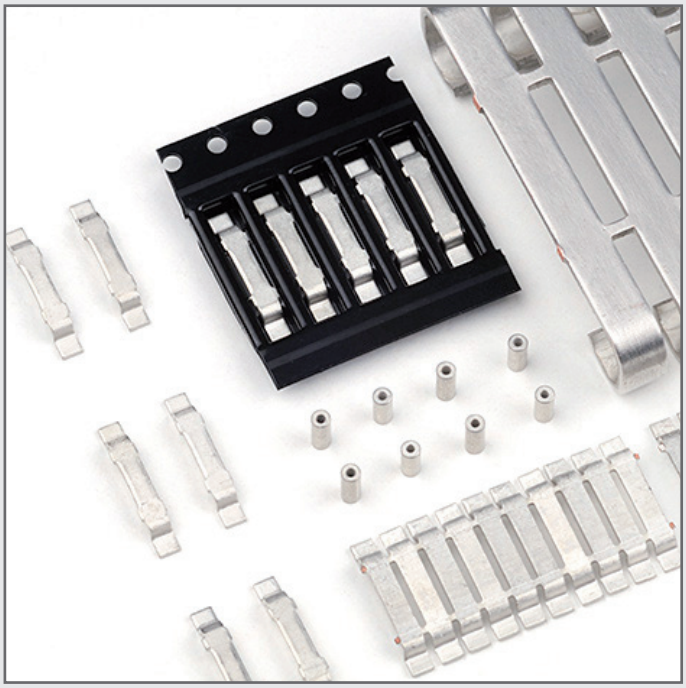
SMT Others

WERNER WIRTH

PROJECT | CONNECT | PROTECT

Features and Benefits
SMT Board Stacking Connectors, Jumper and Bottom Entry Through-Board Sockets

- Connectors can be made to different lengths and diameters.
- Self-centering and alignment problems are eliminated.
- Co-planarity is within .001 inch.
- The solder connection and joint strength is superior.
- Parts are available in bulk, pallets or SMT tape.
- The parts are designed for automation using the customer's existing pick and place equipment and a special feeder – no time consuming hand placement or costly fixturing is required.



Produkt Discription

Zierick has applied the benefits of capillary action to our 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 is greater PCB design flexibility, more cost-efficiency and a higher quality connection.

Available in bulk 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.

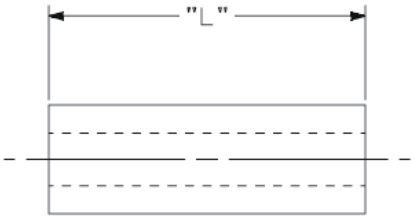
Plus, they have low contact resistance and a high current rating to meet today's modular power requirements. The Board Stacking Connector uses capillary action to provide superior solder joint strength for a more reliable connection.

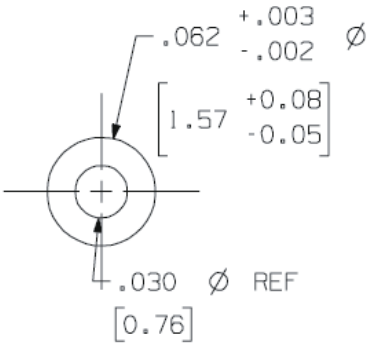
The connectors are first surface-mounted to the mother board. After reflow the PCB with the connectors are surface-mounted to the daughter board.

SMT Board Stacking Connectors

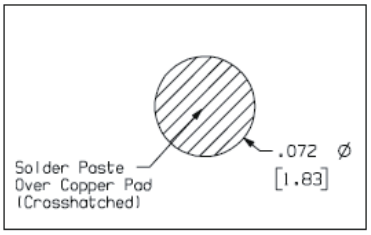
Part Numbers
1258-090-0, 1258-090-0-TH
1258-090-0-TH-SR,
1258-100-0, 1258-118-0,
1258-118-0-T, 1258-140-0,
1258-157-0, 1258-181-0
1258-197-0, 1258-236-0

Zierick recommends .006" stencil thickness for most applications. For other stencil thicknesses, call Zierick's product development department.

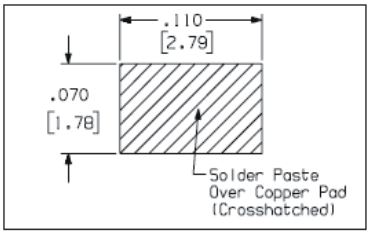




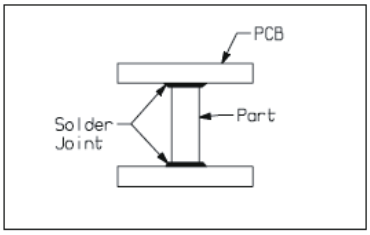
Recommended Solder Pad Geometry for Vertical Placement



Recommended Solder Pad Geometry for Horizontal Placement



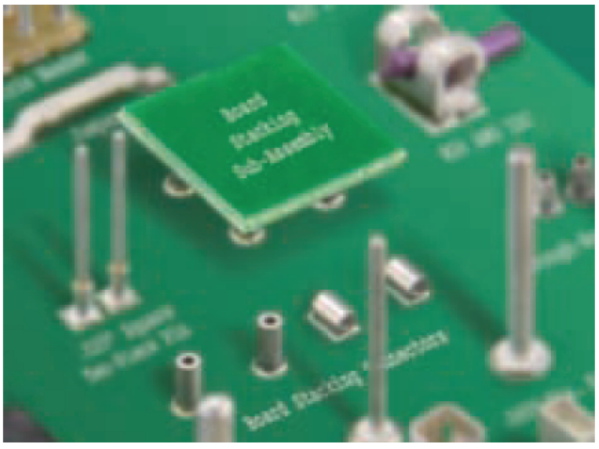
SMT Application



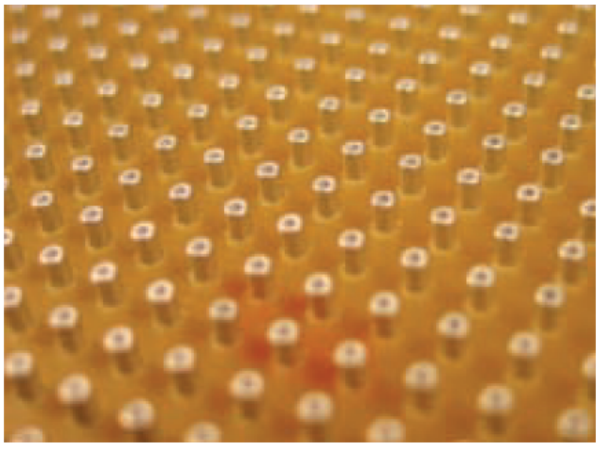
Loose Part No.	1258-090-0	1258-100-0	1258-118-0	1258-140-0	1258-157-0	1258-181-0	1258-197-0	1258-236-0
Taped Part No.	1258-090-0-TH 1258-090-0-TH-SR	n/a	1258-118-0-T	n/a	n/a	n/a	n/a	n/a
Dimensions	.062 x .090 long cylinder	.062 x .100 long cylinder	.062 x .118 long cylinder	.062 x .140 long cylinder	.062 x .157 long cylinder	.062 x .181 long cylinder	.062 x .197 long cylinder	.062 x .236 long cylinder
Finish Material	.000150" Min 100% Tin over .000100" Copper							
Contact Material	C36000 Brass Cylinder Consult factory for optional materials.							
Termination Retention Force	3.5 lbs per terminal							
Current Rating	10 Amperes							

Other lengths may be available. Please consult factory.

Sample Board



Board Stacking Connectors in Trays



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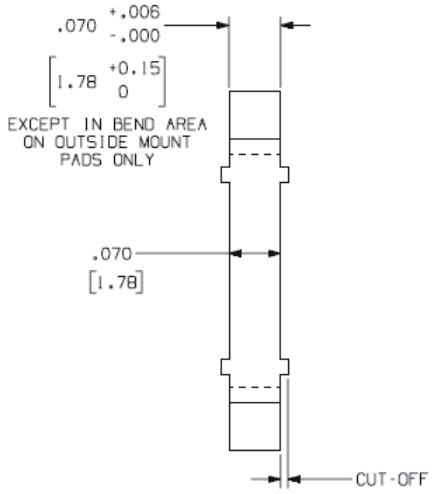
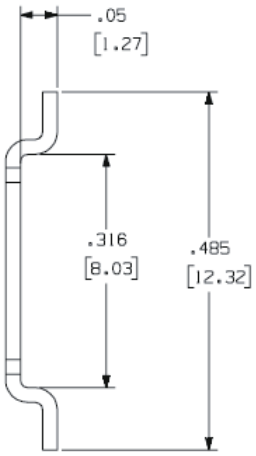
SMT Jumper

Part Numbers 1179, 1179T, 1179T-SR, 6179

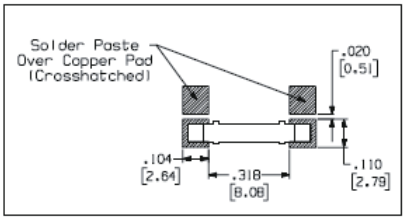
Zierick recommends .006' stencil thickness for most applications. For other stencil thicknesses, call Zierick's product development department.

Loose Part No.	1179	1179T	1179T-SR
Reeled Part No.	6179	N/A	
Material Thickness / Type	0.020" (0.51mm) CDA 11000 Copper		
Standard Finish	100% Tin over Copper		
Current Rating	25 Amperes		
Feeder System	*Surf-Shooter SMT™ Continuous Strip Feeder*	Standard 24mm Tape Feeder	





Recommended Solder Pad Geometry



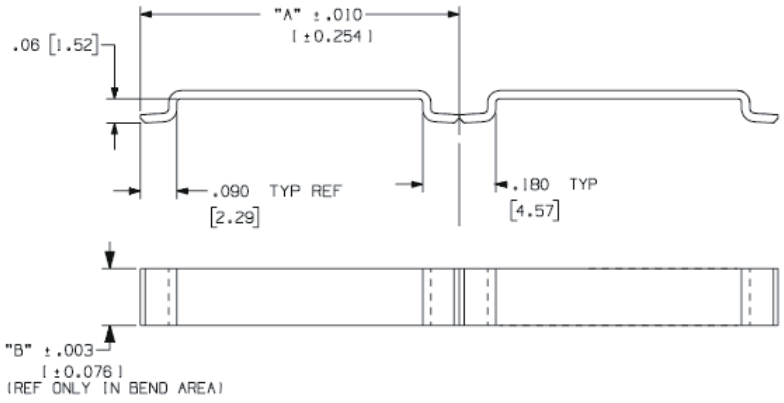
For drawings of our taped parts, please search for this part number on our website, www.zierick.com.

Part Numbers 6233-001, 6233-002, 6233-310-140, 6233-585-200, 6233-787-140, 6233-787-140-T

Zierick recommends .006' stencil thickness for most applications. For other stencil thicknesses, call Zierick's product development department.

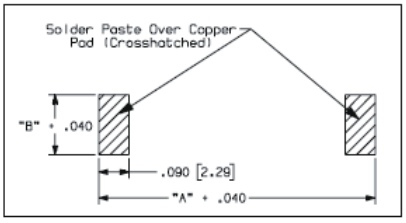
Reeled Part No.	6233-001	6233-002	6233-310-140	6233-585-200	6233-787-140
Taped Part No.					6233-787-140-T
Dim 'A'*	0.300" (7.62mm)	0.485" (12.3mm)	1.500" (38.1mm)	0.585" (14.9mm)	0.787" (20.0mm)
Dim 'B'*	0.075" (1.91mm)	0.075" (1.91mm)	0.075" (1.91mm)	0.200" (5.08mm)	0.140" (3.56mm)
Material Thickness / Type	0.020" (0.51mm) Copper				
Standard Finish	100% Tin Over Copper				
Feeder System	Standard 24mm Tape Feeder				

	Dim 'A'*	Dim 'B'*
Minimum	0.300" (7.62mm)	0.075" (1.91mm)
Maximum	1.500" (38.1mm)	0.200" (5.08mm)



**Where Dimension 'A' = jumper length and Dimension 'B' = jumper width. Different lengths and widths are available. Please consult factory.*

Recommended Solder Pad Geometry



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SMT Bottom Entry Through-Board Sockets

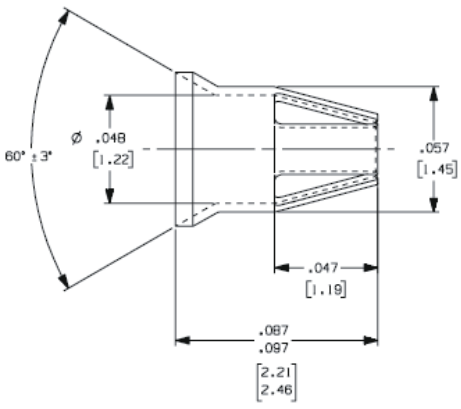
Features and Benefits

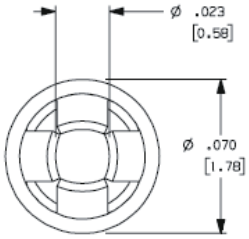
- *Our Through-Board Sockets are designed to handle a high current, up to 7 Amps, depending on the application.*
- *They have a small footprint.*
- *They have a low profile.*
- *Their superior capacity accommodates either power or signal connection (with appropriate plating).*
- *The Sockets offer a high number of mating cycles.*
- *They are available in tape or bulk.*
- *They are ideal for demanding environments and high density applications.*

Part Numbers 1260, 1260T, 1260T-SR

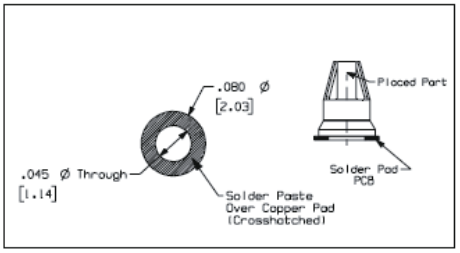
Zierick recommends .006" stencil thickness for most applications. For other stencil thicknesses, call Zierick's product development department.

Loose Part No.	1260
Taped Part Number	1260T
Small Reel Part No.	1260T-SR
Mating Pin Size	0.025" (0.64mm) Square or 0.025" (0.64mm) to 0.032" (0.81mm) Diameter Round Pins
Material Thickness / Type	0.005"(0.13mm) CDA 17200 Beryllium Copper
Standard Finish	Bright Tin over Copper
Current Rating	7 Amperes
Feeder System	Standard 16mm Tape Feeder for Taped Parts





Recommended Solder Pad Geometry



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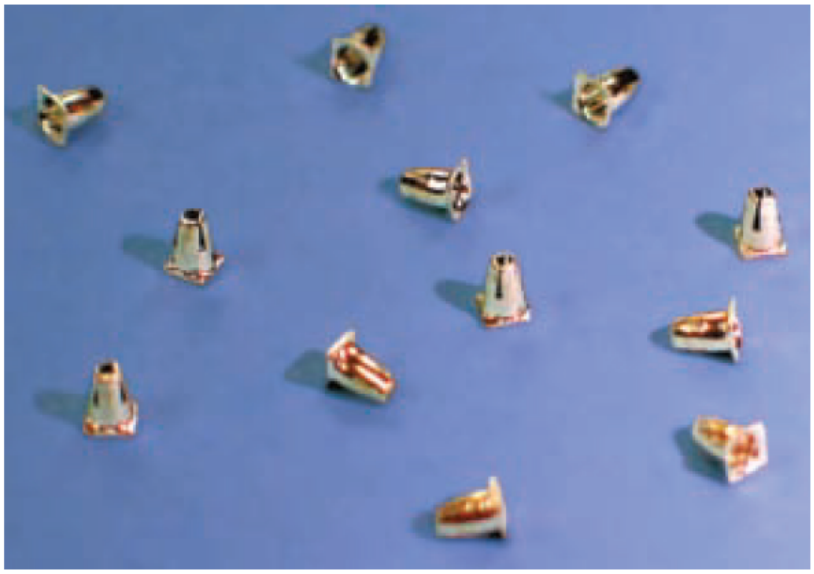
SMT Bottom Entry Through-Board Sockets

Features and Benefits

- *High Current Rating, up to 7 Amps. depending on application*
- *Small footprint*
- *Low profile*
- *Can be either power or signal connection (with appropriate plating)*
- *High number of mating cycles*
- *Available in tape or bulk*
- *Ideal for demanding environments*
- *Square based socket for square mating pin applications*

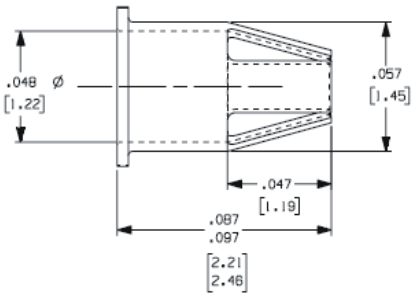


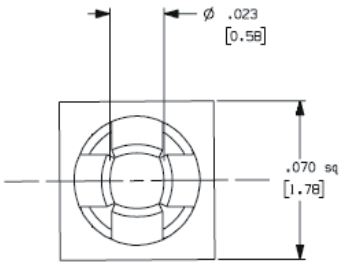
This square based socket is an upgraded version of our standard PN 1260, for square mating pin applications. PN 1260-SQ is consistently oriented in the tape pocket allowing the pick and place machine to place it in the same angular position each time. This means that a square pin will reliably contact with the receptacle the same way each time

Part Numbers 1260-SQ, 1260-SQ-T

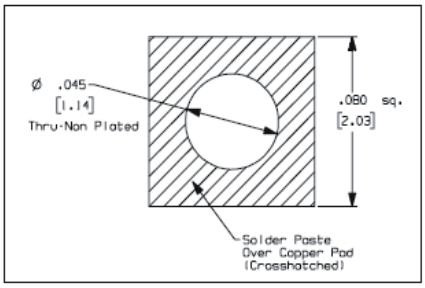
Zierick recommends .006' stencil thickness for most applications. For other stencil thicknesses, call Zierick's product development department.

Loose Part No.	1260-SQ
Taped Part Number	1260-SQ-T
Mating Pin Size	0.025" (0.64mm) Square or 0.025" (0.64mm) to 0.032" (0.81mm) Diameter Round Pins
Material Thickness / Type	0.005" (0.13mm) CDA 17200 Beryllium Copper
Standard Finish	Bright Tin over Copper
Current Rating	7 Amperes
Feeder System	Standard 16mm Tape Feeder for Taped Parts





Recommended Solder Pad Geometry



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