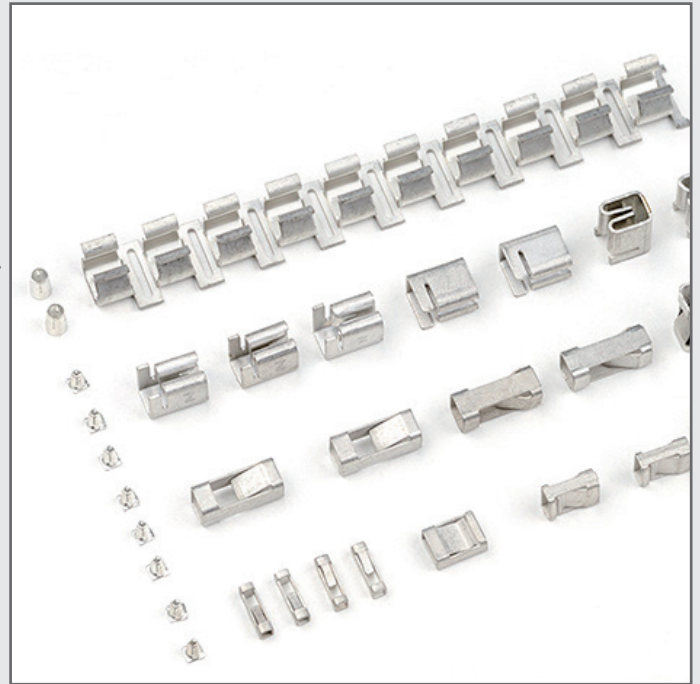


# SMT Receptacles



## Features and Benefits Universal Tab Receptacles

- These receptacles are forgiving forming misalignment.
- They mate with a range of tabs from .025" to .032" thick and widths from .110" wide and larger.
- They have low insertion forces.
- They have a high current rating of 30 Amps.
- They can have a dozen mating cycles (a higher mating cycle version is available).
- This product performs well in demanding automotive applications (shock, vibration, elevated temperature).
- They may be used for top, bottom, or side entry.
- They are designed for automation using the customer's existing pick and place equipment and a special feeder for a continuous strip of components.
- These parts can also be automatically "picked and placed" from tape and reel.



## Produkt Discription

Zierick's family of SMT receptacles provides a range of options designed to lower manufacturing costs, simplify assembly, and increase productivity.

Zierick has expanded its Surface Mount product line to include Universal Tab Receptacles, Box Receptacles, Clips, and Bottom Entry Through-Board Sockets, increasing the options for flexibility and compatibility.

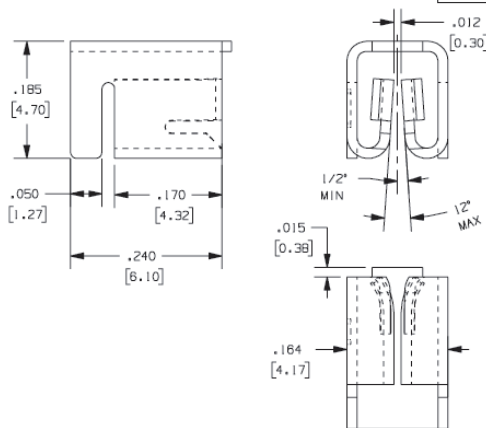
# SMT Top or Horizontal Entry Universal Tab Receptacles

## Part Numbers

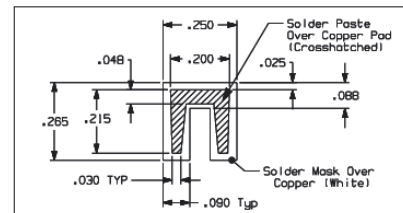
**1237, 1237T, 1237T-SR,  
1237-BMT, 1237-BMT-SR,  
1237T-KAPTON,  
1237T-KAPTON-SR,  
1237-BMT-KAPTON,  
1237-BMT-KAPTON-SR**

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

Loose Part No.	1237			
Reeled Part No.	6237			
Taped Part No.	1237T 1237T-SR	1237-BMT 1237-BMT-SR	1237T-KAPTON 1237T-KAPTON-SR	1237-BMT-KAPTON 1237-BMT-KAPTON-SR
Mating Terminal Size	0.025" (0.64mm) to 0.032" (0.81mm) thick			
Material Thickness / Type	0.016" (0.41mm) Brass			
Standard Finish	100% Tin over Copper			
Current Rating	25 Amperes			
Feeder System	Consult factory for Surf-Shooter SMT™ Continuous Strip Feeder P/N 6237 Standard 16mm Tape Feeder			



## Recommended Solder Pad Geometry



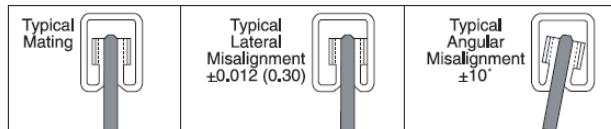
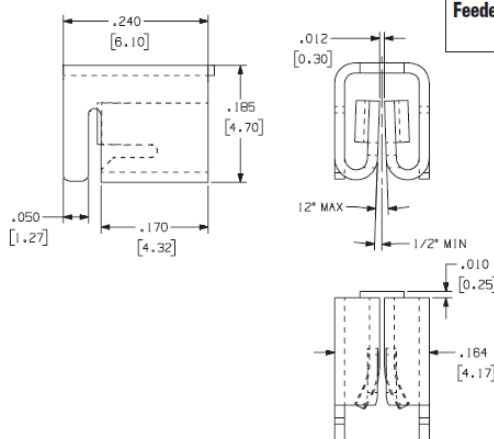
For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

# SMT Bottom or Horizontal Entry Universal Tab Receptacles

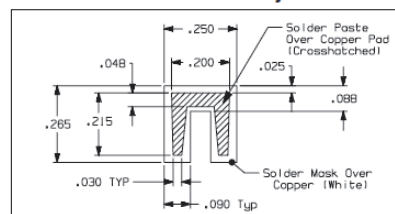
**Part Numbers 1238, 1238T,  
1238T-SR, 1238-BMT,  
1238T-KAPTON,  
1238T-KAPTON-SR, 6238**

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

Loose Part No.	1238			
Reeled Part No.	6238			
Taped Part No.	1238T 1238T-SR	1238-BMT	1238T-KAPTON 1238T-KAPTON-SR	
Mating Terminal Size	0.025" (0.64mm) to 0.032" (0.81mm) thick			
Material Thickness / Type	0.016" (0.41mm) Brass			
Standard Finish	100% Tin over Copper			
Current Rating	25 Amperes			
Feeder System	Consult factory for Surf-Shooter SMT™ Continuous Strip Feeder P/N 6238 Standard 16mm Tape Feeder			



## Recommended Solder Pad Geometry



For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

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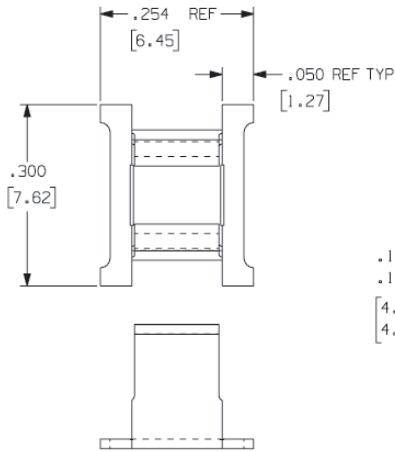
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## 5mm Round Fuse Recaptacles

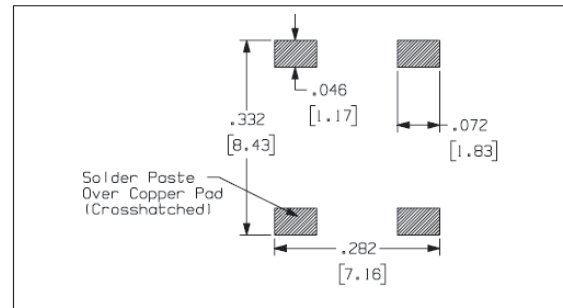
### Part Numbers 1230, 1230T, 1230T-SR, 6230

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



Loose Part No.	1230	
Reeled Part No.	6230	
Taped Part No.	1230T	1230T-SR
Dim 'A'	0.165" (4.19mm)	
Material Thickness / Type	0.016" (0.41mm) Phosphor Bronze	
Standard Finish	100% Tin over Copper	
Current Rating	15 Amperes	
Feeder System	Surf-Shooter SMT™ Continuous Strip Feeder Standard 16mm Tape Feeder	

#### Recommended Solder Pad Geometry

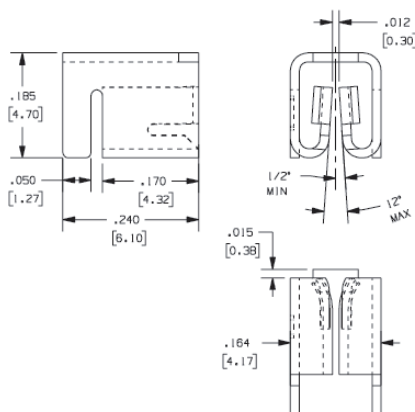


For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

## Auto Fuse Receptacles

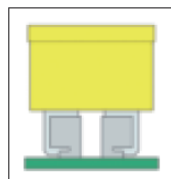
### Part Numbers 1237, 1237T, 1237T-SR, 1237-BMT, 1237-BMT-SR, 1237T-KAPTON, 1237T-KAPTON-SR, 1237-BMT-KAPTON, 1237-BMT-KAPTON-SR

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

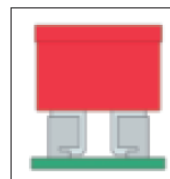


Loose Part No.	1237			
Reeled Part No.	6237			
Taped Part No.	1237T 1237T-SR	1237-BMT 1237-BMT-SR	1237T-KAPTON 1237T-KAPTON-SR	1237-BMT-KAPTON 1237-BMT-KAPTON-SR
Mating Terminal Size	0.025" (0.64mm) to 0.032" (0.81mm) thick			
Material Thickness / Type	0.016" (0.41mm) Brass			
Standard Finish	100% Tin over Copper			
Current Rating	25 Amperes			
Feeder System	Consult factory for Surf-Shooter SMT™ Continuous Strip Feeder P/N 6237 Standard 16mm Tape Feeder			
	U.S. Patent No. 5,730,608			

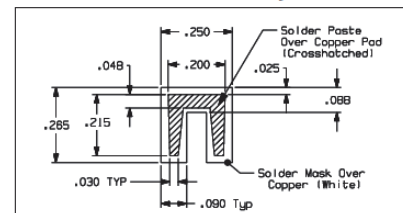
#### Optional use as Mini-Fuse Holder



#### Optional use as ATC (Auto) Fuse Holder



#### Recommended Solder Pad Geometry



For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

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# SMT Receptacles



## Features and Benefits SMT Box Receptacles

- Zierick's Box contacts offer low insertion forces.
- The high pressure contact area assures a reliable gas tight connection.
- They are forgiving for locational misalignment.
- A dozen mating cycles can be expected (a higher mating cycle version is available).
- They use a small footprint.
- These parts are designed for automation using the customer's existing pick and place equipment and a special feeder for a continuous strip of components.
- These parts can also be automatically "picked and placed" from tape and reel.



## Produkt Discription

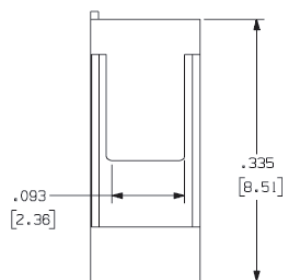
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Zierick has expanded its Surface Mount product line to include Universal Tab Receptacles, Box Receptacles, Clips, and Bottom Entry Through-Board Sockets, increasing the options for flexibility and compatibility.

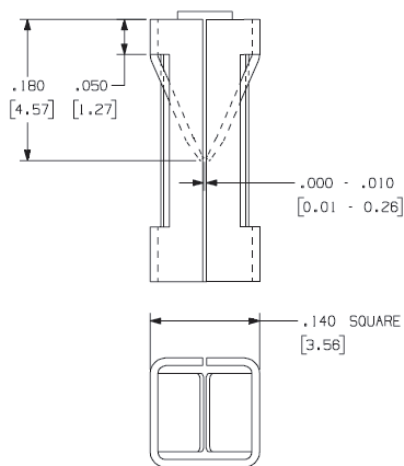
# Wire Grippers

## Part Numbers 1262, 6262, 1262T, 1262T-SR, 1262TH

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

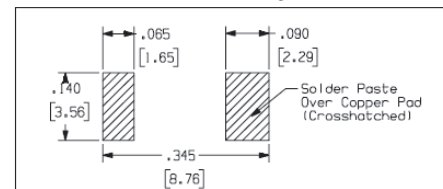


For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

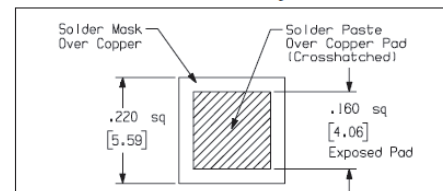


Loose Part No.	1262		
Reeled Part No.	6262		
Taped Part No.	1262T	1262T-SR	1262TH
Mating Terminal Size	0.025" (0.64mm) square or 0.032" (0.81mm) round pin		
Material Thickness / Type	0.010" (0.25mm) Phosphor Bronze		
Standard Finish	100% Tin over Copper		
Current Rating	20 Amperes		
Feeder System	Surf-Shooter SMT™ Continuous Strip Feeder Standard 24mm Tape Feeder for PN 1262T and PN 1262TH		

### Recommended Solder Pad Geometry for Horizontal Mount

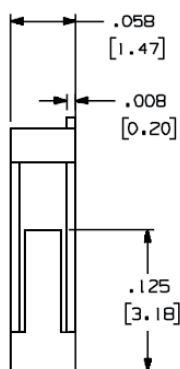
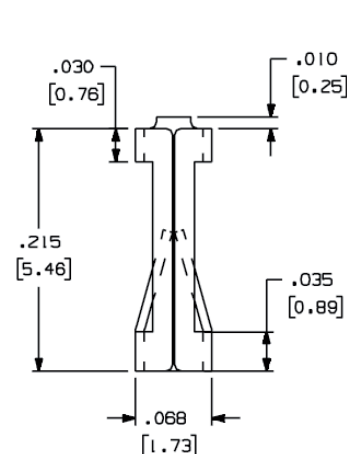


### Recommended Solder Pad Geometry for Vertical Mount



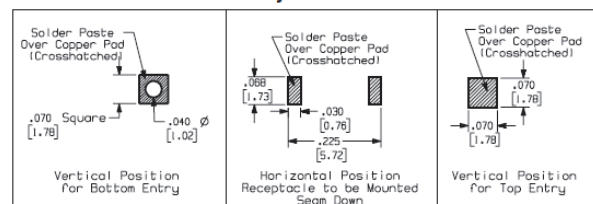
## Part Numbers 1301, 1301TH, 6301

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



Loose Part No.	1301		
Reeled Part No.	6301		
Taped Part No.	1301TH		
Mating Terminal Size	0.025" (0.64mm) square or 0.025" (0.64mm) round pin		
Material Thickness / Type	.008" (0.20mm) Phosphor Bronze		
Standard Finish	100% Tin over Copper		
Current Rating	10 Amperes		
Feeder System	Surf-Shooter SMT™ Continuous Strip Feeder Standard 24mm Tape Feeder for PN 1301TH		

### Recommended Solder Pad Geometry



For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

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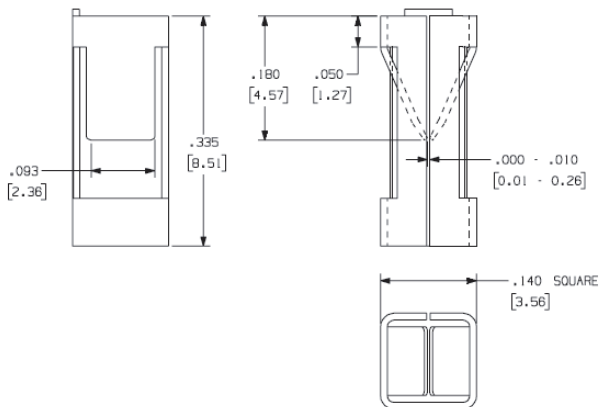


# SMT Top or Bottom Entry Box Receptacles

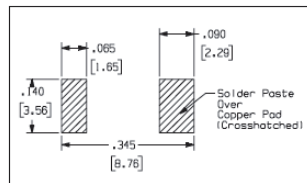
## Part Numbers 1262, 6262, 1262T, 1262T-SR, 1262TH

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

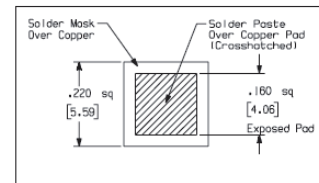
Loose Part No.	1262		
Reeled Part No.	6262		
Taped Part No.	1262T	1262T-SR	1262TH
Mating Terminal Size	0.025" (0.64mm) square or 0.032" (0.81mm) round pin		
Material Thickness / Type	0.010" (0.25mm) Phosphor Bronze		
Standard Finish	100% Tin over Copper		
Current Rating	20 Amperes		
Feeder System	Surf-Shooter SMT™ Continuous Strip Feeder Standard 12mm Tape Feeder for PN 1262T and PN 1262TH		



### Recommended Solder Pad Geometry For Horizontal Mount



### Recommended Solder Pad Geometry For Vertical Mount

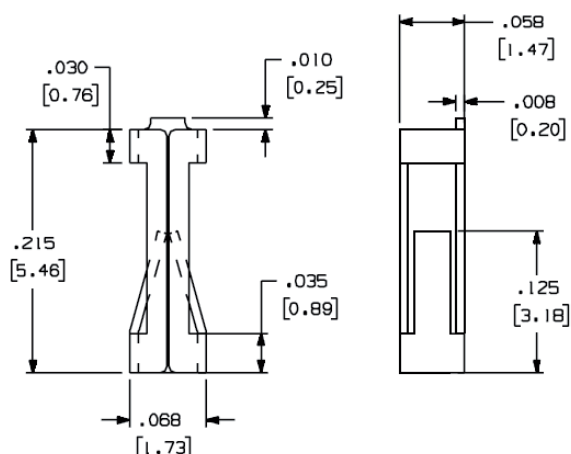


For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

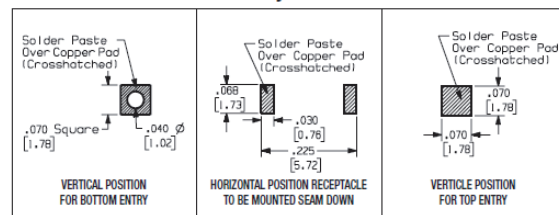
## Part Numbers 1301, 1301TH, 6301

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

Loose Part No.	1301
Reeled Part No.	6301
Taped Part No.	1301TH
Mating Terminal Size	0.025" (0.64mm) square or 0.025" (0.64mm) round pin
Material Thickness / Type	.008" (0.20mm) Phosphor Bronze
Standard Finish	100% Tin over Copper
Current Rating	10 Amperes
Feeder System	Surf-Shooter SMT™ Continuous Strip Feeder Standard 24mm Tape Feeder for PN 1301TH



### Recommended Solder Pad Geometry



For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

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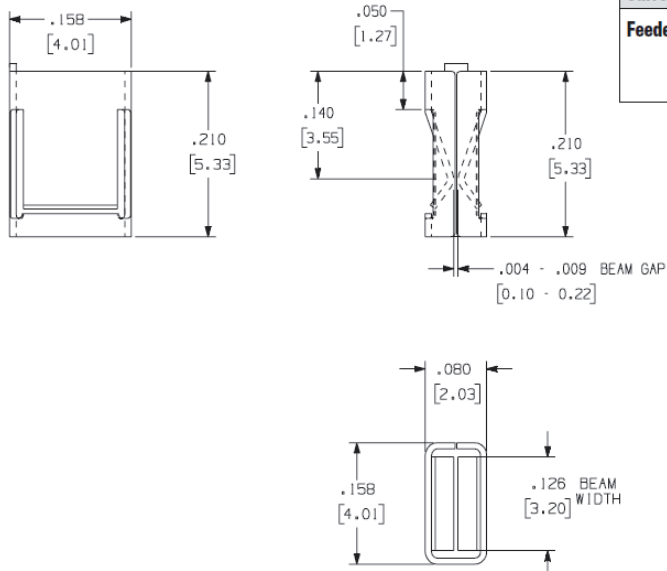
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# SMT Dual Entry Box Receptacles

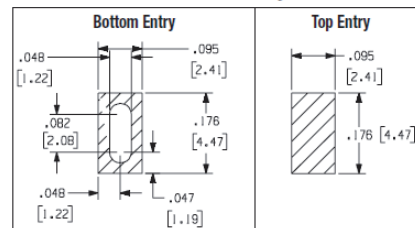
## Part Numbers 1266, 6266, 1266-TV, 1266-TV-KAPTON

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



Loose Part No.	1266
Reeled Part No.	6266
Taped Part No.	1266-TV 1266-TV-Kapton
Mating Terminal Size	0.020" (0.51mm) to 0.032" (0.81mm) thick
Material Thickness / Type	0.008" (0.20mm) Phosphor Bronze
Standard Finish	100% Tin over Copper
Current Rating	20 Amperes
Feeder System	Surf-Shooter SMT™ Continuous Strip Feeder Standard 16mm Tape Feeder for PNs 1266-TV and 1266-TV-Kapton

### Recommended Solder Pad Geometry



For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

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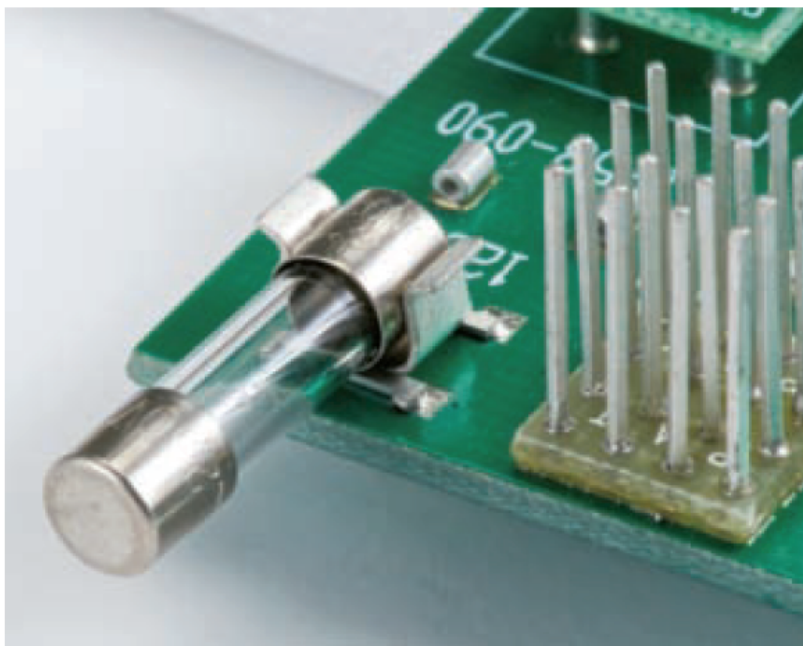
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# SMT Clips

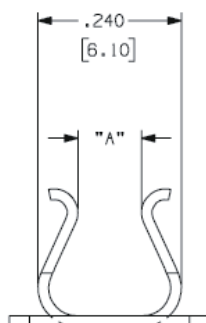
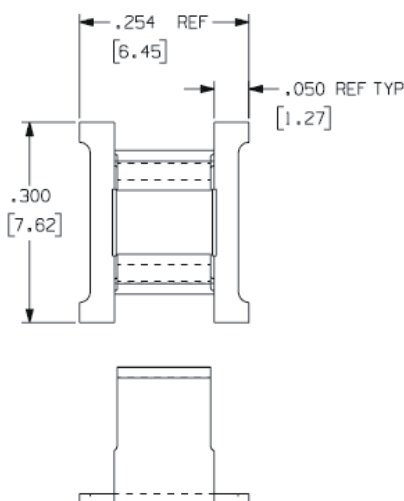
## Features and Benefits

- Individual clips can be randomly placed.
- Clips don't float during reflow.
- Clips are available in two gap widths - 0.165" gap for use with standard 5mm fuses and 0.095" gap for use as a 1/8" (.125") pin receptacle.
- The gap dimension / contact force can be optimized for specific applications depending on mating cycles, voltage current and operating environment.
- It has a suitable force for fuse retention.
- Clips are designed for automation using the customer's existing pick and place equipment and a special feeder for a continuous strip of components.
- These parts can also be automatically "picked and placed" from tape and reel.



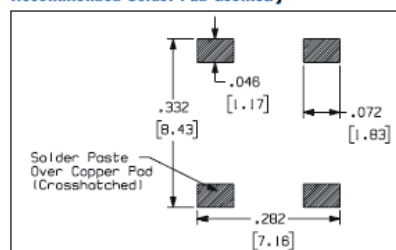
## Part Numbers 1230, 1230T, 1230T-SR, 1184, 1184T, 6230, 6184

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



	5mm Fuse	Clip Connector
<b>Loose Part No.</b>	1230	1184
<b>Reeled Part No.</b>	6230	6184
<b>Taped Part No.</b>	1230T      1230T-SR	1184T
<b>Dim 'A'</b>	0.165" (4.19mm)	0.090" (2.29mm)
<b>Material Thickness / Type</b>	0.016" (0.41mm) Phosphor Bronze	
<b>Standard Finish</b>	100% Tin over Copper	
<b>Current Rating</b>	15 Amperes	
<b>Feeder System</b>	Surf-Shooter SMT™ Continuous Strip Feeder Standard 16mm Tape Feeder	
	U.S. Patent Nos. 5,695,348, 5,730,608 and other U.S. and international patents	

## Recommended Solder Pad Geometry



For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

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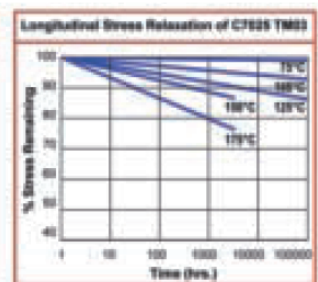


# Terminals for High Temp Applications

## High Temperature / High Current Terminals

In newer automotive applications, operating temperatures and power throughput are steadily increasing. Most of today's terminals designed for such demanding applications are made of beryllium copper, which is very expensive. Zierick's response is a new way to create economically priced high temperature terminals. These components can operate at higher temperatures and have a higher current rating than their standard equivalents. They are stamped from an alloy with high temperature, high conductivity and improved stress relaxation properties. The stress relaxation feature is far superior to that of cartridge brass in elevated

Physical and Engineering Properties of C7025		
Physical Properties	English Units	Metric Units
Melting Point (Liquidus)	2003°F	1095°C
Melting Point (Solidus)	1961°F	1072°C
Density	318 lbs/in <sup>3</sup>	8.82 g/cm <sup>3</sup>
Thermal Conductivity	95-110 Btu-in/ft <sup>2</sup> -in <sup>2</sup> -°F @ 98°F	0.35-0.45 cal/cm <sup>2</sup> -cm <sup>2</sup> -°C @ 20°C
Electrical Resistivity	25.8 ohm-circ mils @ 98°F	4.3 microhm-cm @ 20°C
Electrical Conductivity		
TM03	40% IACS @ 98°F	0.23 megohm-cm @ 20°C
TM02	40% IACS @ 98°F	0.23 megohm-cm @ 20°C
TM01	40% IACS @ 98°F	0.23 megohm-cm @ 20°C
TM04	30% IACS @ 98°F	0.23 megohm-cm @ 20°C
Modulus of Elasticity (Tensile)	16,000,000 psi	11,000 kg/cm <sup>2</sup>



temperatures and heating applications.

Zierick's Part Number 1275 is standard, but many other parts can be produced with the same properties. This material easily lends itself to being used with our existing tooling and fabrication methods with little or no additional cost to the custom receptacle required.

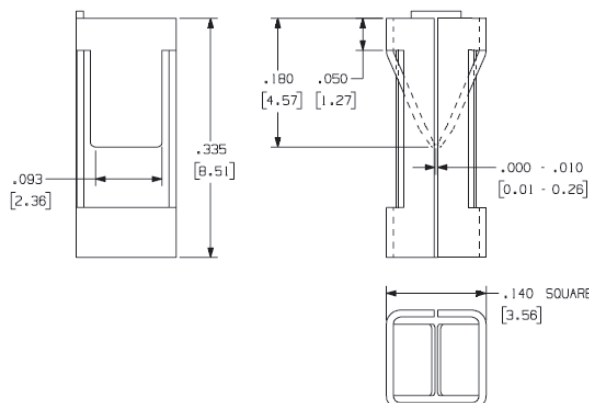
Stress relaxation is a critical inherent property of the material since the spring design feature in many receptacles is needed to maintain reliable connections at elevated temperatures. The tables above illustrate the various physical attributes of Alloy C7025. Call Zierick for more information.

## Part Numbers 1275, 6275, 1275T, 1275TH

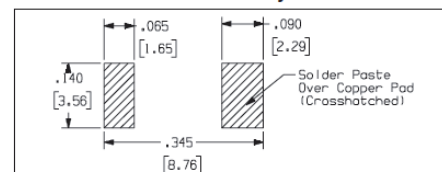
Zierick recommends .006" stencil thickness for most applications. For other stencil thicknesses, call Zierick's product development department.

For drawings of our taped parts, please search for this part number on our website, [www.zierick.com](http://www.zierick.com).

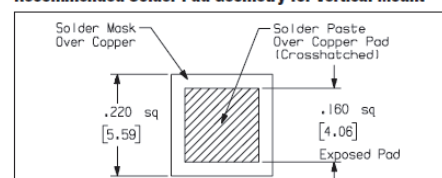
Loose Part No.	1275
Reeled Part No.	6275
Taped Part No.	1275T 1275TH
Mating Terminal Size	0.025" (0.64mm) and 0.032" (0.81mm) Round or Square
Mounting Type	Surface Mount
Material Thickness / Type	0.010" (0.25mm) CDA 70250 High Performance Alloy
Standard Finish	Loose: 100% Tin over Copper Reeled: 100% Tin over Copper
Mating Entry	Top and Bottom
Current Rating	20 Amperes
Resistance Rating	10mΩ Max
Temperature Rating	Up to 175°C
Feeder System	Surf-Shooter SMT™ Continuous Strip Feeder Standard 24mm Tape Feeder



### Recommended Solder Pad Geometry for Horizontal Mount



### Recommended Solder Pad Geometry for Vertical Mount



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