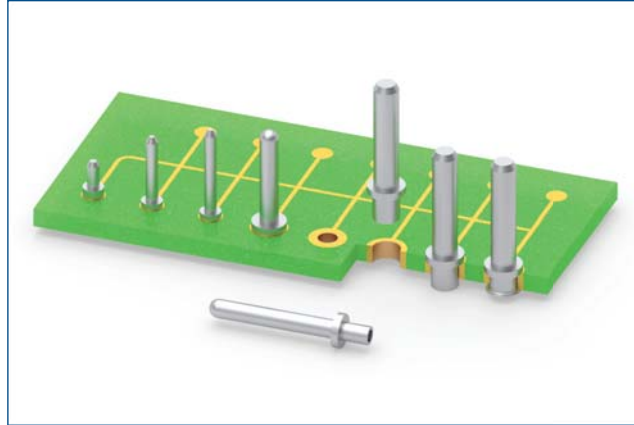


# MAXIMUM SOLUTIONS

## Swage Mount PCB Pins For Interconnect Applications



Mill-Max is adding to its diverse mix of [swage mount PCB pins](#) with six new offerings designed for interconnect applications. These swage mount terminals are designed to be mechanically fastened to a board or panel and plugged into sockets or soldered into mating boards in board stacking and other interconnect configurations.

Swage pins are often thought of as wire-to-board soldering terminals and test points or as hardware such as PCB standoffs, but they are also an excellent choice for board-to-board interconnects. They are cost effective due to their simple design, don't require the more precise PCB hole specifications associated with most press-fit pins and can be processed in volume with semi-automatic or automatic equipment. Swage assembly is a method of mechanically fastening pin terminals to a circuit board, similar in style to riveting. After the pins are swaged, they are soldered, providing a robust mechanical and reliable electrical connection.

The swage pins featured here are offered in various diameters and lengths to suit a wide variety of interconnect applications. They are useful when space is limited, near the edge of a board for example, where a connector with its housing is not an option. The swaged pin takes up relatively little space and is secure without the need of an insulator. The longer pins are perfect for overcoming the height of taller board components (large capacitors, transformers, power supplies, potentiometers) to connect to a daughter card or other module, while the low profile 4658-0 may be used on boards which are primarily SMT, to keep the overall stacked board assembly height to a minimum .

All the pins are high speed precision turned from brass alloys and annealed to prevent cracking during the swaging operation. The standard plating for these pins is matte tin over nickel with other plating options available upon request.

(6/17 -- PR677)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, Oyster Bay, NY 11771  
516-922-6000 • Fax: 516-922-9253 • [www.mill-max.com](http://www.mill-max.com)



<b>Part #</b>	<b>Pin Dia. (in)</b>	<b>Pin Length for Mating (in.)</b>	<b>Suggested Mounting Hole Diameter (in)</b>	<b>Maximum Board or Panel thickness (in)</b>
4658-0-00-80-00-00-08-0	.040	.094	.043	.062
4275-0-00-80-00-00-08-0	.040	.235	.043	.075
9103-0-00-80-00-00-08-0	.040	.300	.043	.031
4639-0-00-80-00-00-08-0	.062	.432	.065	.062
4717-0-00-80-00-00-08-0	.062	.332	.065	.062

Contact the technical support team at Mill-Max Mfg. to discuss your particular requirements and applications.

Please visit [www.mill-max.com/PR677](http://www.mill-max.com/PR677) for samples and more detailed information on this and other Mill-Max products.

# MALE PCB PINS

## PRINTED CIRCUIT PINS

<p><b>3169</b> 3169-0-00-15-00-00-03-0 V-Groove Header Pin Also available on Kapton Tape</p>	<p><b>1140</b> 1140-0-01-XX-00-00-03-0 Press-fit in .057 mounting hole For wire sizes up to 20 AWG</p>	<p><b>1160</b> 1160-0-01-XX-00-00-03-0 Press-fit in .080 mounting hole For wire sizes up to 16 AWG</p>	<p><b>1178</b> 1178-0-01-XX-00-00-03-0 Press-fit in .100 mounting hole For wire sizes up to 14 AWG</p>					
<p><b>4658</b> 4658-0-00-XX-00-00-08-0 Swage mount .043 mounting hole</p>	<p><b>4275</b> 4275-0-00-XX-00-00-08-0 Swage mount .043 mounting hole</p>	<p><b>9103</b> 9103-0-00-XX-00-00-08-0 Swage mount .043 mounting hole</p>	<p><b>4357</b> 4357-0-00-XX-00-00-03-0 Solder mount .064 mounting hole</p>					
<p><b>4639/4717</b> 4XXX-0-00-XX-00-00-08-0 Swage mount .065 mounting hole</p> <table border="1" data-bbox="511 1333 738 1512"> <thead> <tr> <th>Basic Part Number</th> <th>Pin Length A</th> </tr> </thead> <tbody> <tr> <td>4639-0</td> <td>.432</td> </tr> <tr> <td>4717-0</td> <td>.332</td> </tr> </tbody> </table>	Basic Part Number	Pin Length A	4639-0	.432	4717-0	.332	<p><b>9242</b> 9242-0-00-XX-00-00-08-0 Swage mount .094 mounting hole</p>	<p><b>4650</b> 4650-0-00-XX-00-00-03-0 Solder mount .065 mounting hole</p>
Basic Part Number	Pin Length A							
4639-0	.432							
4717-0	.332							

### SPECIFICATIONS:

**Pin Material:** Brass Alloy 360, 1/2 Hard  
(Except where noted)

**Dimensions:** Inches

**Tolerances On:** Lengths:  $\pm .005$   
Diameters:  $\pm .002$   
Angles:  $\pm 2^\circ$



**ORDER CODE:** XXXX - 0 - 00 - XX - 00 - 00 - 0X - 0

**BASIC PART #** →

**SPECIFY PIN FINISH:**

- 01 200  $\mu$ " TIN/LEAD OVER NICKEL
- ◆ 80 200  $\mu$ " TIN OVER NICKEL (RoHS)
- ◆ 15 10  $\mu$ " GOLD OVER NICKEL (RoHS)
- ◆ 21 20  $\mu$ " GOLD OVER NICKEL (RoHS)
- ◆ 34 50  $\mu$ " GOLD OVER NICKEL (RoHS)

