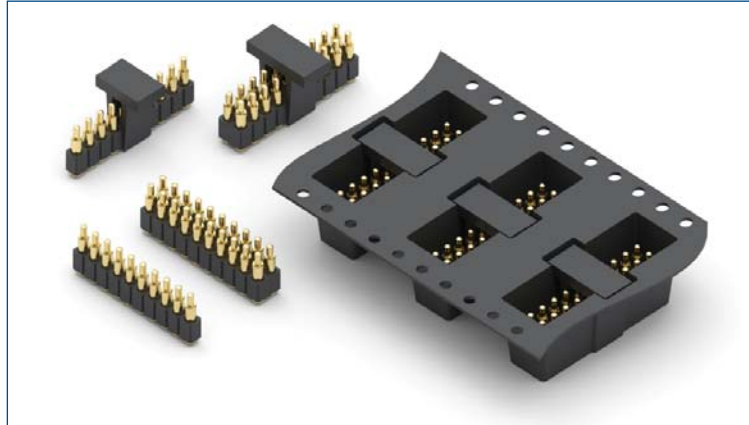


# MAXIMUM SOLUTIONS

## 2mm Pitch Spring-Loaded Connectors



Mill-Max is excited to introduce the addition of 2mm pitch spring-loaded connectors to our extensive line of spring-loaded products. As always, real estate is at a premium in electronic packaging with designers demanding tighter pitch interconnects that deliver high quality performance. These spring-loaded connectors (SLC's) are an appealing option combining both durability and space saving qualities. For board-to-board or device-to-board connections, these 2mm spring-loaded connectors are a practical solution.

The connectors feature spring pins with a working travel of .0275" (0,7mm) and a maximum travel of .055" (1,4mm). With a base diameter on the pins of .056" (1,42mm) and a plunger diameter of .032" (.81mm) there is adequate space for laying out the PCB pads and traces on both the solder and mating sides of the connectors. The initial, uncompressed, height of the connectors is .295" (7,5mm).

These new SLC's are offered in single row, series [836-22-OXX-30-001101](#) and double row, series [838-22-OXX-30-001101](#). Standard availability is 2 to 10 positions for single row and 4 to 20 positions for the double row. Both series are available in tubes or on tape and reel which have pick & place vacuum clips to facilitate automated assembly.

The new 2mm pitch spring-loaded connectors maintain the quality and reliability of current Mill-Max spring pin connectors by utilizing the same precision-machined components and internal spring components. Gold-plated components and springs ensure the highest conductivity, corrosion resistance and durability. The spring-loaded pins used in these connectors have a current rating of 2 amps continuous use (3 amps maximum.) The high temperature plastic housing is suitable for all soldering processes and the connectors are RoHS compliant.

For more information, please visit: [www.mill-max.com/PR650](http://www.mill-max.com/PR650).

(10/14 -- PR650)

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)



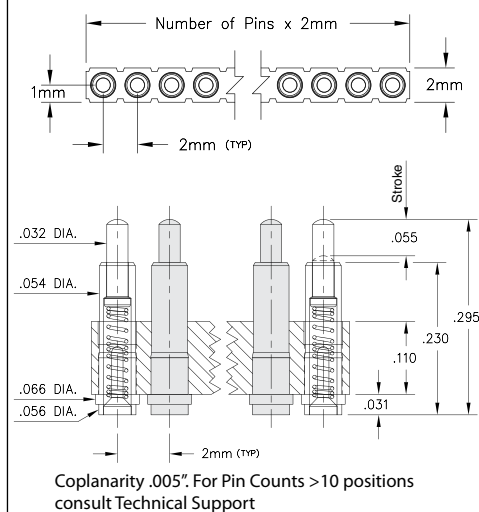
# SPRING-LOADED CONNECTORS

## SERIES 836 & 838 • 2mm GRID SURFACE MOUNT • SINGLE AND DOUBLE ROW STRIPS

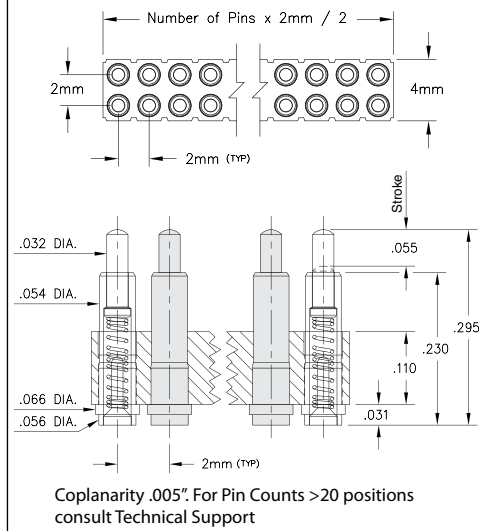


- Modular contacts for use on 2mm grid, available in single and double row contact strips with working travel of .0275" and max. stroke of .055"
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for SMT soldering processes
- Both 836 & 838 series, are available on 32mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481
- 836 & 838 series contact strips are designed for manual or automatic placement onto .066" Ø solder pads

### SINGLE ROW Series 836



### DOUBLE ROW Series 838



## ORDERING INFORMATION

### Series 836 (Bulk Packaged)

836-22-0XX-30-001101

Specify number of contacts 02-10

### Series 836 (Tape & Reel Packaged, 400 parts per reel)

836-22-0XX-30-001191

Specify number of contacts 02-10

### Series 838 (Bulk Packaged)

838-22-0XX-30-001101

Specify number of contacts 04-20

### Series 838 (Tape & Reel Packaged, 400 parts per reel)

838-22-0XX-30-001191

Specify number of contacts 04-20

## Technical Specifications

### Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel

Spring: Stainless Steel-plated 10μ" gold

Insulator: High temperature thermoplastic, rated UL94 V-0

### Mechanical:

Spring force @ initial height: 25 grams

Spring force @ mid stroke (.0275"): 60 grams

Durability: 1,000,000 cycles

### Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

Capacitance: 1pF max.

RoHS-2  
2011/65/EU



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mill-Max:

[838-22-014-30-001101](#) [836-22-009-30-001101](#)