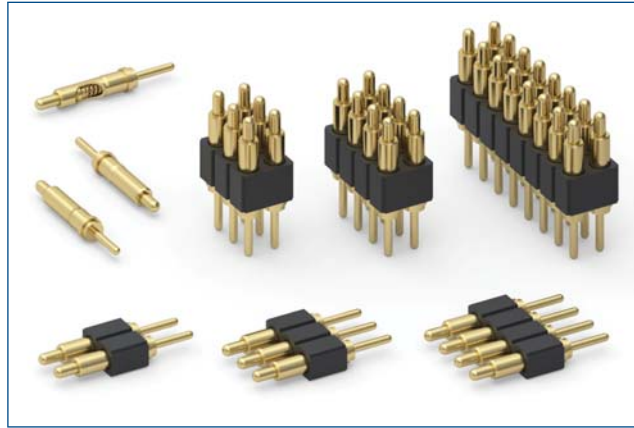


# MAXIMUM SOLUTIONS

## New Through-Hole Version 2mm Pitch Spring-Loaded Connectors



Mill-Max has added a through-hole version of 2mm pitch spring-loaded connectors to complement the series' surface mount version. 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 with the additional security of through-hole mounting, 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). The initial, uncompressed, height of the connectors from the board surface is .295" (7,5mm). Mill-Max also offers standard 2 mm pitch mating target connectors in through-hole and surface mount varieties, each with the option of a flat or concave face. When mated with [through-hole target connectors](#), at mid-stroke, a board to board height of .425" (10,8 mm) is achieved; .408" (10,35 mm) with the [SMT targets](#). The connectors feature a solder tail diameter of .022" (.56mm) and a plunger diameter of .032" (.81mm) allowing adequate space for laying out the PCB holes, pads and traces on both the solder and mating sides of the connectors.

These new through-hole SLC's are offered in single row, series [836-22-0XX-10-001101](#) and double row, series [838-22-0XX-10-001101](#). Standard availability is 2 to 50 positions for single row and 4 to 100 positions for the double row. Both series are designed for manual placement into  $\varnothing .030 \pm .003$ " plated through-holes in the circuit board prior to hand, wave or reflow soldering.

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/PR670](http://www.mill-max.com/PR670).

(11/16 -- PR670)

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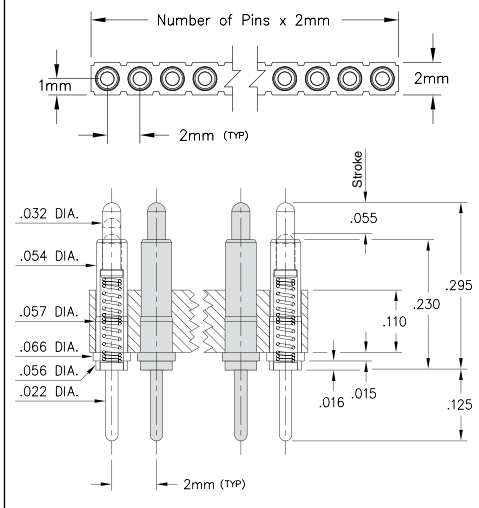
# SPRING-LOADED CONNECTORS

## SERIES 836 & 838 • 2MM GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS

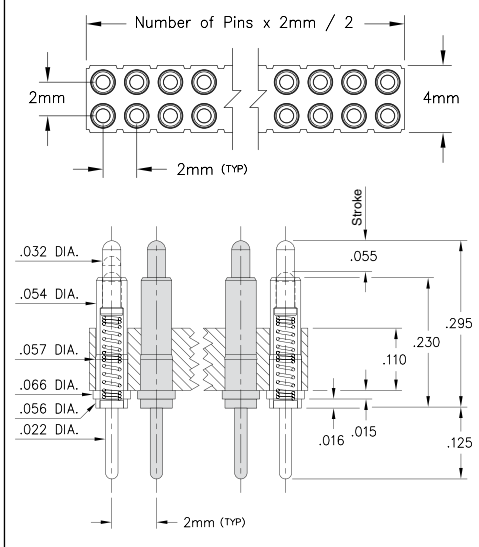


- Modular contacts for use on 2mm grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a .0275" mid. stroke and a .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- Both 836 & 838 series contact strips are designed for manual placement into  $\varnothing .030 \pm .003$ " plated through-holes in the circuit board prior to soldering

### SINGLE ROW Series 836



### DOUBLE ROW Series 838



## ORDERING INFORMATION

### Single Row Series 836

836-22-0XX-10-001101

Specify number of contacts 01-50

### Double Row Series 838

838-22-XXX-10-001101

Specify number of contacts 04-100

## Technical Specifications

### Materials:

Contact piston & base: Machined copper alloy plated 20 $\mu$ " gold over 100 $\mu$ " nickel  
 Spring: Beryllium copper-plated 10 $\mu$ " 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: 20m $\Omega$  max.  
 Insulation resistance: 10,000M $\Omega$  min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.

RoHS - 2  
2011/65/EU

