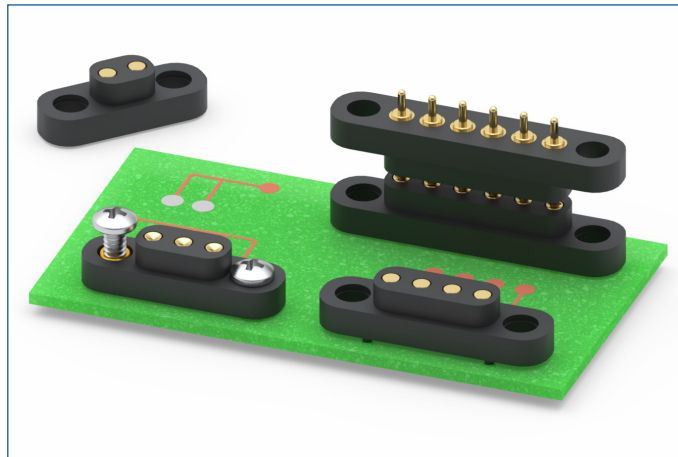


# MAXIMUM SOLUTIONS

## Mill-Max announces new 4mm pitch target connector



**Oyster Bay, NY, September 12, 2017** – Mill-Max Manufacturing Corp., Inc. today announces a new target connector on 4 mm pitch designed for rugged applications incorporating a flanged base and hardware options for secure mounting. This target connector series is the mating half to the recently released [858 series](#) ruggedized spring loaded connector.

Offered in 2-6 positions in through-hole, SMT and SMT with alignment pin versions, this new target connector series features a high temperature molded Nylon 46 housing that is compatible with RoHS soldering processes. Mounting tabs, integrated into the housing, provide a means for secure attachment to the PCB or product assembly. The tab holes may be specified with threaded inserts or left empty for other hardware requirements. The flanged base provides stability for the connector. The pins are plated with 10 micro inches hard gold over nickel for durability and excellent conductivity.

Additionally, these connectors are offered with the choice of either a flat or concave face on the mating side of the pins. The flat face style is .082" (2,08 mm) in diameter providing ample target area for the .050" (1,27mm) diameter mating plunger. Concave face targets provide additional surface area when mated and can aid in centering/alignment of components fitted with spring loaded connectors during manual engagement.

In common with all Mill-Max products the new target pins employ high-speed precision turning with tight tolerances. The overall pin length tolerance of +/- .001" (.0254 mm), combined with established in-house manufacturing and assembly techniques produce a connector with coplanarity of .005" (0,127 mm) or better. Advanced machining processes are employed to ensure there are no cut-off burrs on the face or SMT base of the pins to impede the electrical connection and attachment to the P.C.B. The table below provides details of the features for each part number in the series.

Part #	Termination Style	Threaded Insert	Alignment Pins	Face Style
858-10-00X-10-001000	Through Hole	No	No	Flat
858-10-00X-10-011000	Through Hole	Yes	No	Flat
858-10-00X-10-002000	Through Hole	No	No	Concave
858-10-00X-10-012000	Through Hole	Yes	No	Concave
858-10-00X-30-001000	SMT	No	No	Flat
858-10-00X-30-011000	SMT	Yes	No	Flat
858-10-00X-30-601000	SMT	No	Yes	Flat
858-10-00X-30-611000	SMT	Yes	Yes	Flat
858-10-00X-30-002000	SMT	No	No	Concave
858-10-00X-30-012000	SMT	Yes	No	Concave
858-10-00X-30-602000	SMT	No	Yes	Concave
858-10-00X-30-612000	SMT	Yes	Yes	Concave

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

Please visit the [www.mill-max.com/PR680](http://www.mill-max.com/PR680) for samples and more detailed information on this and other Mill-Max products.

### About Mill-Max

Mill-Max is the leading US manufacturer of machined interconnect components with a vertically integrated manufacturing facility headquartered at 190 Pine Hollow Rd., Oyster Bay, NY 11771. Its full product line includes spring-loaded connectors, SIP, DIP, PGA and BGA sockets, board-to-board interconnects and pin headers, surface mount and custom products, PCB pins and receptacles, solder terminals, wrapost receptacles and terminals. The company's complete manufacturing facility includes engineering, tooling, primary and secondary machining, stamping, plating, injection molding, and assembly.

For more information, contact Mill-Max Mfg. Corp. Applications Engineering, [techsupport@mill-max.com](mailto:techsupport@mill-max.com); [www.mill-max.com](http://www.mill-max.com); PR680, 9/17



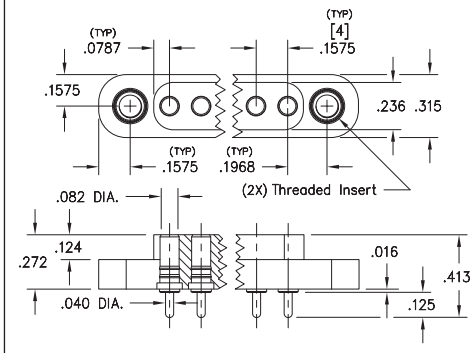
# SPRING-LOADED CONNECTORS

## SERIES 858 • 4MM GRID RUGGED FLAT FACE TARGET CONNECTOR • SURFACE MOUNT AND THROUGH HOLE MOUNT

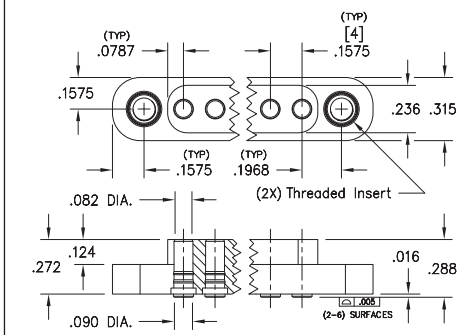


- Rugged Target Connectors for use on 4mm grid, supplied in 2 - 6 position connectors
- Target Connectors provide an excellent gold-plated conductive mating surface for spring-loaded connectors. These series are offered with a flat face for making contact with our 858-22-00X-X0-XX1101 series spring-loaded connectors
- Target connectors use MM #1959-0 and #1969-0 pins. See page 223.5 for details
- Mounting tabs provide a means for secure attachment to the PCB and may be specified with or without threaded inserts
- High temp. thermoplastic insulators are suitable for wave and reflow soldering processes
- Series 858-10-00X-10-0X1000 connectors are designed for manual placement into  $.048 \pm .003$ "  $\varnothing$  plated through-holes in the circuit board prior to soldering
- Series 858-10-00X-30-0X1000 and 858-10-00X-30-6X1000 connectors are designed for manual placement onto  $.100$ "  $\varnothing$  minimum solder pads

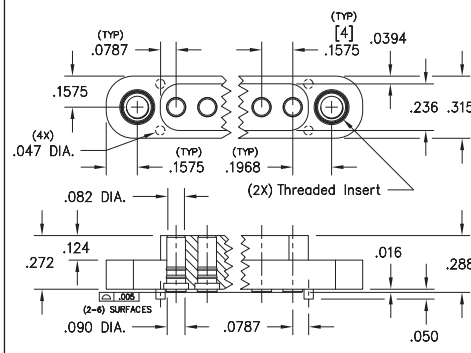
### Series 858-10-00X-10-0X1000



### Series 858-10-00X-30-0X1000



### Series 858-10-00X-30-6X1000



## ORDERING INFORMATION

### Series 858 (Through-Hole Mount)

858-10-00X-10-0X1000

Specify number of pins 2-6      No Threaded inserts = 0  
 (#4-40) Threaded inserts = 1

### Series 858 (Surface Mount)

858-10-00X-30-0X1000

Specify number of pins 2-6      No Threaded inserts = 0  
 (#4-40) Threaded inserts = 1

### Series 858 (Surface Mount with Alignment Pins)

858-10-00X-30-6X1000

Specify number of pins 2-6      No Threaded inserts = 0  
 (#4-40) Threaded inserts = 1



XX=Plating Code  
See Below

For  
Electrical, Mechanical  
& Environmental Data,  
See page 264

SPECIFY PLATING CODE XX=	10		
Pin Plating 	10 $\mu$ " Au		



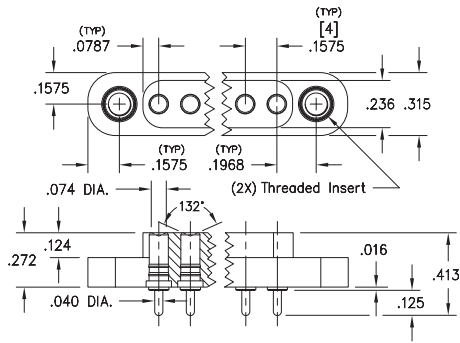
# SPRING-LOADED CONNECTORS

## SERIES 858 • 4MM GRID RUGGED CONCAVE FACE TARGET CONNECTOR • SURFACE MOUNT AND THROUGH HOLE MOUNT

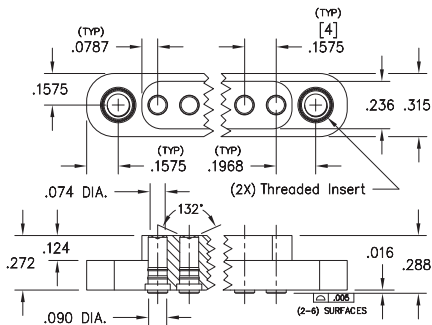


- Rugged Target Connectors for use on 4mm grid, supplied in 2 - 6 position connectors
- Target Connectors provide an excellent gold-plated conductive mating surface for spring-loaded connectors. These series are offered with a concave face providing additional surface area for mating with our 858-22-00X-X0-XX1101 series spring-loaded connectors
- Target connectors use MM #1959-1 and #1969-1 pins. See page 223.5 for details
- Mounting tabs provide a means for secure attachment to the PCB and may be specified with or without threaded inserts
- High temp. thermoplastic insulators are suitable for wave and reflow soldering processes
- Series 858-10-00X-10-0X2000 connectors are designed for manual placement into .048±.003" Ø plated through-holes in the circuit board prior to soldering
- Series 858-10-00X-30-0X2000 and 858-10-00X-30-6X2000 connectors are designed for manual placement onto .100" Ø minimum solder pads

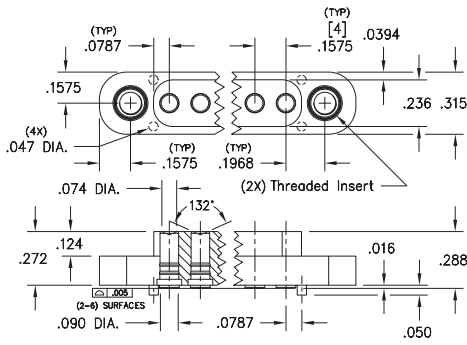
### Series 858-10-00X-10-0X2000



### Series 858-10-00X-30-0X2000



### Series 858-10-00X-30-6X2000



## ORDERING INFORMATION

### Series 858 (Through-Hole Mount)

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### Series 858 (Surface Mount)

858-10-00X-30-0X2000  
 Specify number of pins 2-6 → No Threaded inserts = 0 (#4-40) Threaded inserts = 1

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858-10-00X-30-6X2000  
 Specify number of pins 2-6 → No Threaded inserts = 0 (#4-40) Threaded inserts = 1



XX=Plating Code  
See Below

For  
Electrical, Mechanical  
& Environmental Data,  
See page 264

SPECIFY PLATING CODE XX=	10			
Pin Plating 	10 μ" Au			

