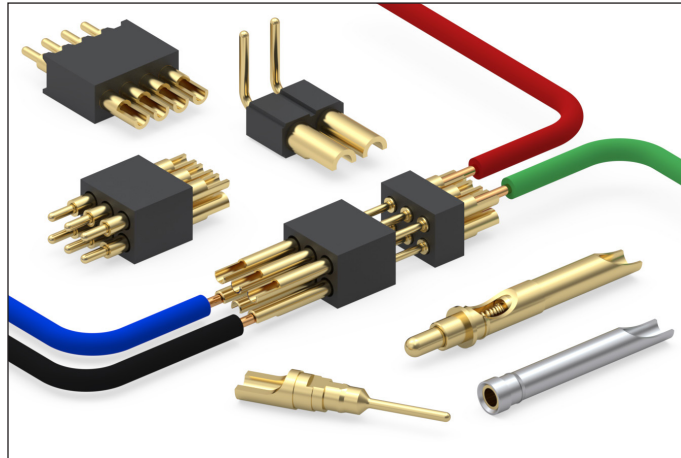


MAXIMUM SOLUTIONS

Mill-Max Solder Cup Connectors and Terminal Pins

A selection of connectors, spring pins, receptacles and terminals offering convenient solutions for a wide range of wire termination applications



Mill-Max is proud to present new solder cup products delivering the most versatile array of solutions for your wire termination needs. Across our product line, there are new options to choose from in connectors and discrete terminals suitable for a variety of spacing, height and orientation requirements.

Solder cup components simplify the task of making wired connections between PCB's or devices and PCB's. They provide an appliance designed to accept and hold wires in place, eliminating the frustration of trying to manipulate them while performing the soldering operation. The solder cup also allows the solder to pool and form around the wire leading to better solder joints and more reliable, robust connections. Mill-Max has developed new manufacturing techniques and equipment to produce solder cup features for 2mm and .050" pitch connectors, right angle and low-profile interconnects and integrated into fine pitch spring loaded connectors.

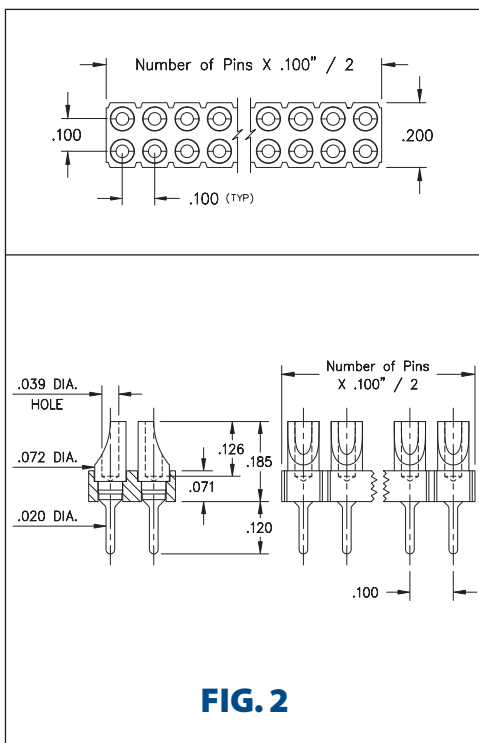
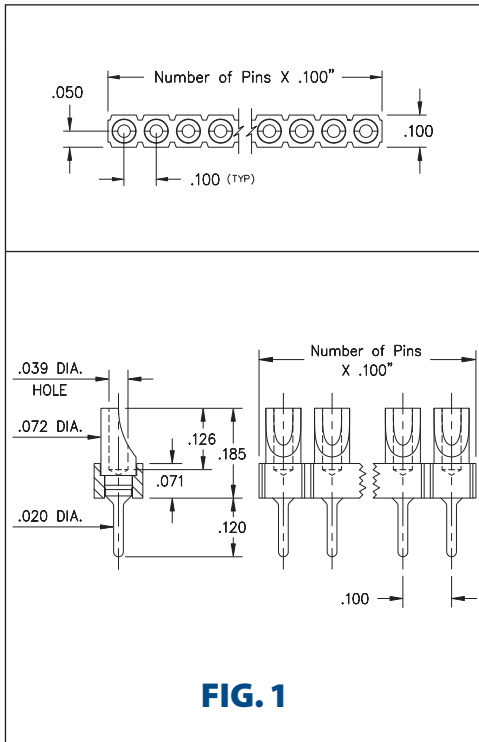
Mill-Max has long offered a wide range of products with solder cup features including discrete receptacles, terminal pins and spring-loaded pins as well as standard .100" pitch headers, sockets and spring-loaded connectors. We are now expanding this product line by introducing these new solder cup connector configurations: .050" and 2 mm pitch headers with straight and right-angle solder tail options; .050" pitch sockets; .050" pitch spring-loaded connectors; .100" pitch low profile headers.

All our solder cup connectors have high temperature insulators and uniformly aligned solder cups to facilitate efficient soldering, some also have enhanced anti-rotation features. Single and double row are available for most series with right angle available only in single row.

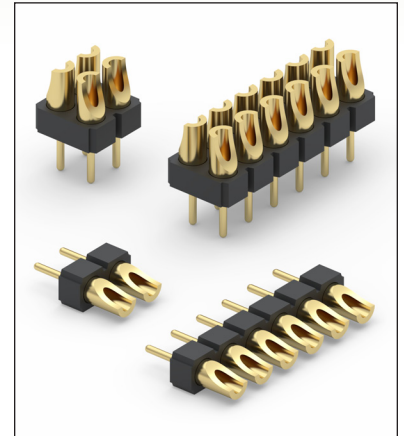
For more information, please visit www.mill-max.com/PR691.

INTERCONNECTS

SERIES 380 & 480 • .100" GRID LOW PROFILE SOLDER CUP HEADERS SINGLE AND DOUBLE ROW STRIPS



- Series 380 & 480 solder cup headers for low profile wire termination applications
- .020" diameter pins are suitable for mating with standard sockets or for through-hole soldering to the P.C.B.
- Solder cups are uniformly aligned to facilitate efficient soldering
- Accepts up to 22 AWG Stranded wire
- Insulators are high temperature thermoplastic, suitable for all soldering operations



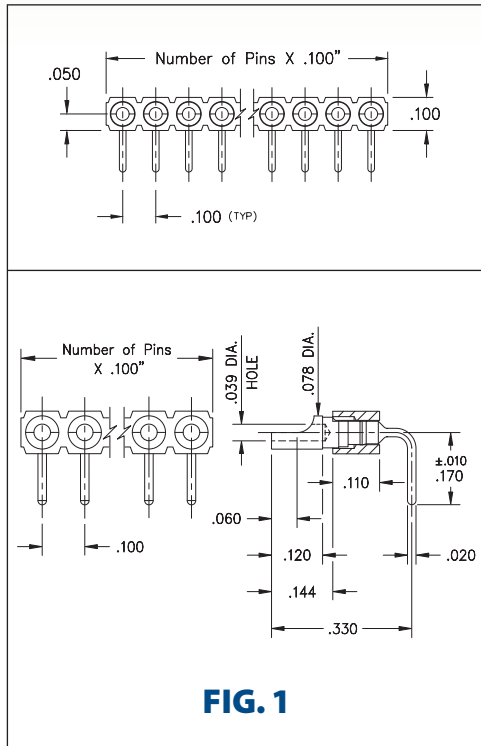
ORDERING INFORMATION

FIG. 1	Series 380...002	Single Row Solder Cup Header			
	380-10-0	-00-002000	Specify number of pins		
			01-64		
<div> <div>RoHS-2 2011/65/EU</div> <div>XX=Plating Code See Below</div> <div>For Electrical, Mechanical & Environmental Data, See page 264</div> </div>					
SPECIFY PLATING CODE XX=		10			
Pin Plating		10 μ" Au			
FIG. 2	Series 480...002	Double Row Solder Cup Header			
	480-XX-0	-00-002000	Specify number of pins		
			02-72		
<div> <div>RoHS-2 2011/65/EU</div> <div>XX=Plating Code See Below</div> <div>For Electrical, Mechanical & Environmental Data, See page 264</div> </div>					
SPECIFY PLATING CODE XX=		10			
Pin Plating		10 μ" Au			

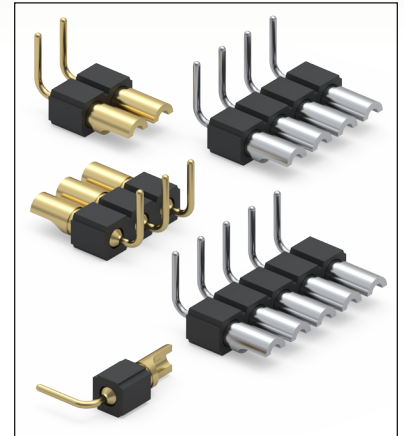


INTERCONNECTS

SERIES 380 • .100" GRID, LOW PROFILE RIGHT ANGLE SOLDER CUP HEADERS • SINGLE ROW STRIPS



- Series 380 right angle solder cup headers for low profile wire termination applications
- .020" diameter pins are suitable for mating with standard sockets or for through-hole soldering to the P.C.B.
- Connectors feature uniformly aligned solder cups and anti-rotation construction to facilitate efficient soldering
- Accepts up to 22 AWG Stranded wire
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 380...003		Single Row R/A Solder Cup Header												
	<div>380-XX-1-10-003000</div> <div>Specify number of pins</div> <div>01-64</div>														
<div><div><div>RoHS - 2 2011/65/EU</div><div>XX=Plating Code See Below</div><div>For Electrical, Mechanical & Enviromental Data, See page 264</div></div><table><tr><td>SPECIFY PLATING CODE XX=</td><td>10</td><td></td><td>40</td><td></td></tr><tr><td>Pin Plating</td><td>10 μ" Au</td><td></td><td>200 μ" Sn</td><td></td></tr></table></div>						SPECIFY PLATING CODE XX=	10		40		Pin Plating	10 μ" Au		200 μ" Sn	
SPECIFY PLATING CODE XX=	10		40												
Pin Plating	10 μ" Au		200 μ" Sn												



INTERCONNECTS

SERIES 830 AND 832 • 2mm GRID SOLDER CUP HEADERS, SINGLE ROW RIGHT ANGLE, SINGLE AND DOUBLE ROW STRAIGHT

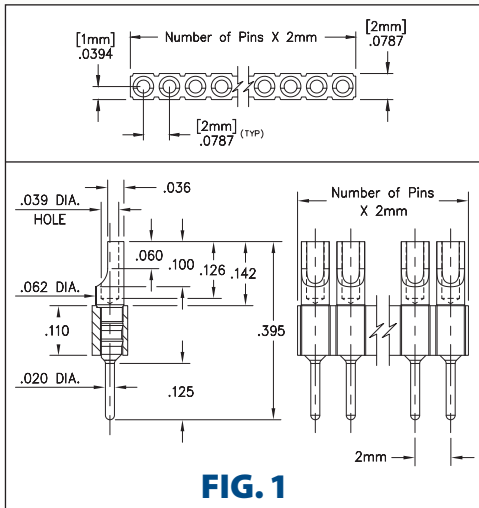


FIG. 1

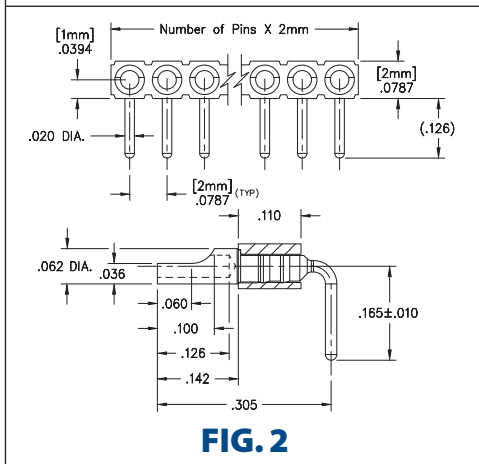


FIG. 2

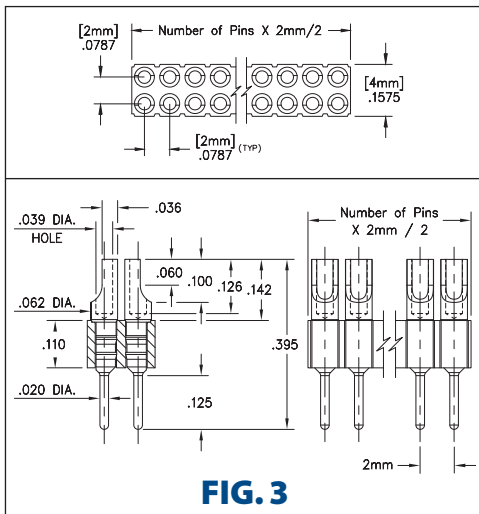
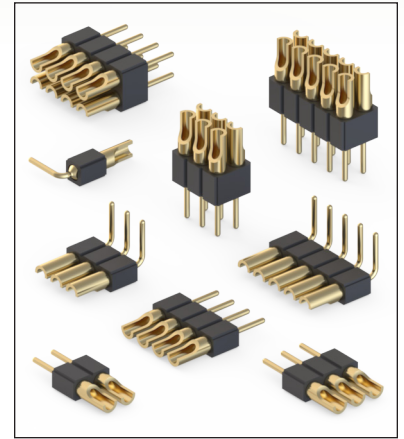


FIG. 3

- Series 830 & 832 solder cup headers for 2mm pitch wire termination applications
- .020" diameter pins are suitable for mating with standard sockets or for through-hole soldering to the P.C.B.
- Connectors feature uniformly aligned solder cups & anti-rotation construction to facilitate efficient soldering
- Accepts up to 22 AWG Stranded wire
- Series 830 right angle headers are low profile and minimize wire manipulation for parallel mating conditions
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION





FIG. 1	Series 830...005	Single Row Solder Cup Header
	830-10-0	-10-005000
	Specify number of pins	02-50
FIG. 2	Series 830...005	Solder Cup Header Right Angle
	830-10-0	-20-005000
	Specify number of pins	02-50
<div>RoHS-2 2011/65/EU</div> <div>XX=Plating Code See Below</div> <div>For Electrical, Mechanical & Environmental Data, See page 264</div>		
SPECIFY PLATING CODE XX=		
Pin Plating 		
	10 	
	10 μ" Au	

FIG. 3	Series 832...005	Double Row Solder Cup Header
	832-10-	-10-005000
	Specify number of pins	004-100
<div>RoHS-2 2011/65/EU</div> <div>XX=Plating Code See Below</div> <div>For Electrical, Mechanical & Environmental Data, See page 264</div>		
SPECIFY PLATING CODE XX=		
Pin Plating 		
	10 	
	10 μ" Au	



INTERCONNECTS

SERIES 850 & 851 • .050" GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE ROW STRIPS

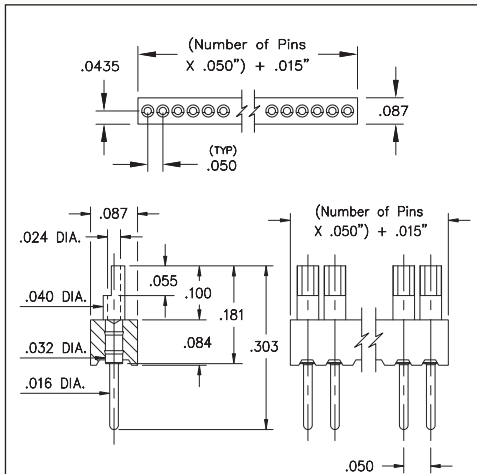


FIG. 1

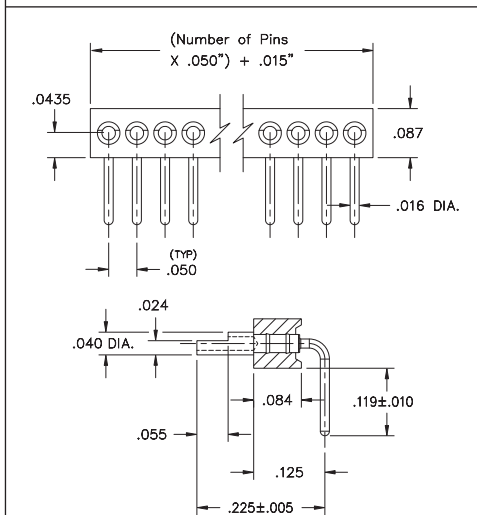


FIG. 2

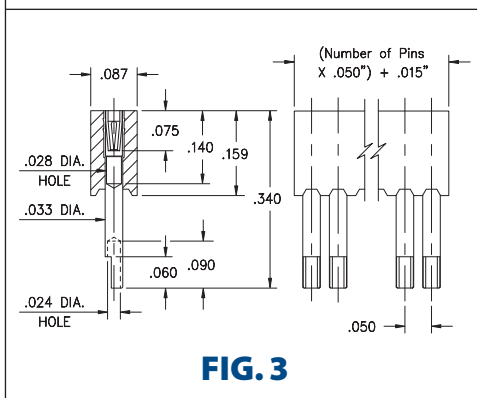
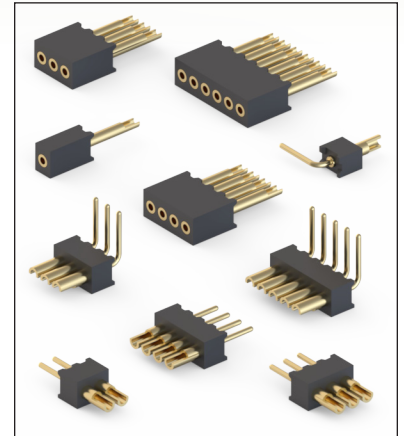


FIG. 3

- Solder cups are pre-aligned and accept up to 26 AWG wire
- Series 850 headers use MM #3050-0 pins. See page 244 for details
- Series 851 sockets use MM #1157-0 receptacles that accept pin diameters from .015"-.020". See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION





FIG. 1	Series 850...003 Single Row Solder Cup / Solder Tail	
	850-XX-0	-10-003000
	Specify number of pins	01-50
FIG. 2	Series 850...003 Single Row Right Angle Solder Cup	
	850-XX-0	-20-003000
	Specify number of pins	01-50
<div>RoHS-2 2011/65/EU</div> <div>XX=Plating Code See Below</div> <div>For Electrical, Mechanical & Environmental Data, See page 264</div>		
SPECIFY PLATING CODE XX=		
Pin Plating 		
	10 	
	10 μ " Au	

FIG. 3	Series 851...003 Single Row Solder Cup Socket	
	851-XX-	-10-003000
	Specify number of pins	01-50
<div>RoHS-2 2011/65/EU</div> <div>XX=Plating Code See Below</div> <div>For Electrical, Mechanical & Environmental Data, See page 264</div>		
SPECIFY PLATING CODE XX=		
Sleeve (Pin) 		
	10 μ " Au	
Contact (Clip) 		
	30 μ " Au	



INTERCONNECTS

SERIES 852 & 853 • .050" GRID SOLDER CUP HEADERS AND SOCKETS, DOUBLE ROW STRIPS

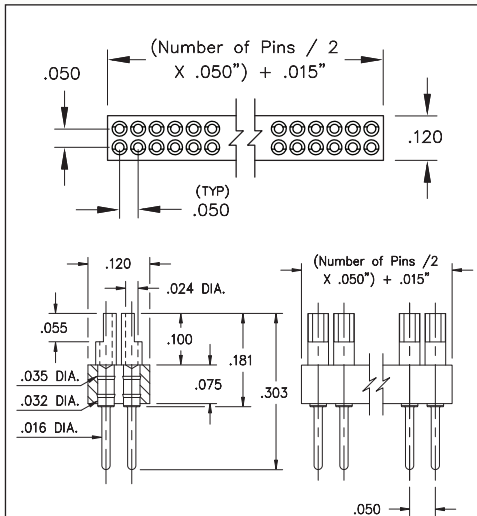


FIG. 1

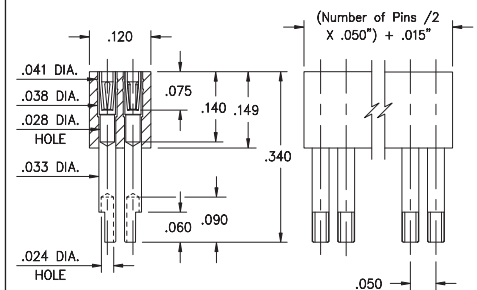
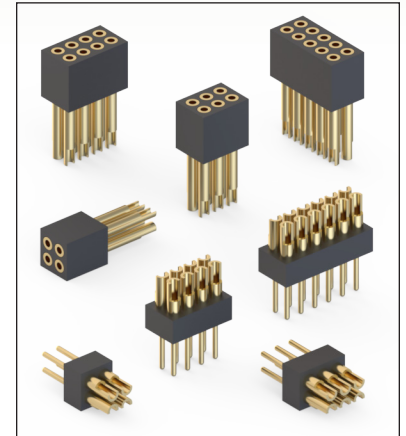


FIG. 2

- Solder cups are pre-aligned and accept up to 26 AWG wire
- Series 852 headers use MM #3050-0 pins. See page 244 for details
- Series 853 sockets use MM #1157-0 receptacles that accept pin diameters from .015"-.020". See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION





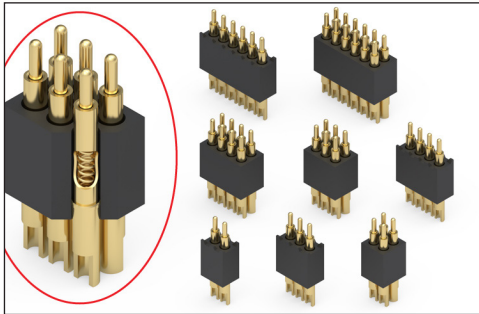
FIG. 1	Series 852...003		Double Row Solder Cup / Solder Tail	
	852-XX-__-10-003000 Specify number of pins 002-100			
<div><div>RoHS - 2 2011/65/EU</div><div>XX=Plating Code See Below</div><div>For Electrical, Mechanical & Enviromental Data, See page 264</div></div>				
SPECIFY PLATING CODE XX=		10 		
Pin Plating 		10 μ" Au		

FIG. 2	Series 853...003		Double Row Solder Cup Sockets					
	853-XX-__-10-003000 Specify number of pins 002-100							
<div>RoHS - 2 2011/65/EU</div>			<div>XX=Plating Code See Below</div>			<div>For Electrical, Mechanical & Enviromental Data, See page 264</div>		
SPECIFY PLATING CODE XX=			13					
Sleeve (Pin)		10 μ" Au						
Contact (Clip)		30 μ" Au						



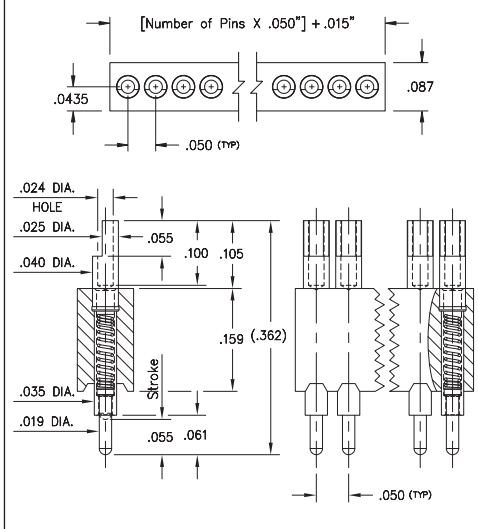
SPRING-LOADED CONNECTORS

SERIES 854 & 855 • .050" GRID SOLDERCUP HEADER • SINGLE AND DOUBLE ROW STRIPS

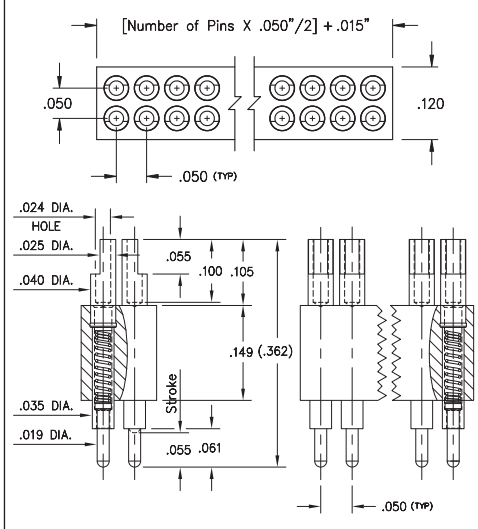


- Modular contacts for use on .050" grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a .0275" mid. stroke and a .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- Insulators are high temperature thermoplastic
- Both 854 & 855 series strips have spring pins with wire termination soldercups. The soldercups are aligned to provide easy access for soldering up to size 26 AWG wires

SINGLE ROW Series 854



DOUBLE ROW Series 855



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-10-003101

Specify number of contacts 01-50

Double Row Series 855

855-22-0XX-10-003101

Specify number of contacts 02-100

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
Spring: Beryllium copper-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: Up to 100,000 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