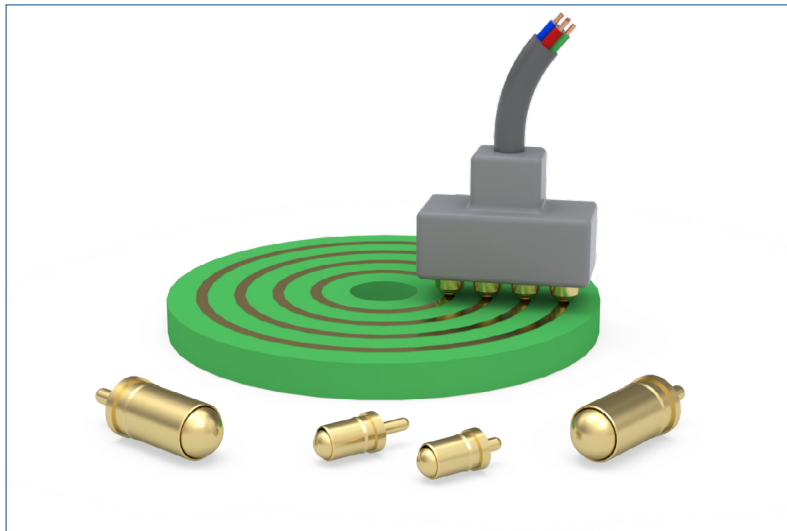


# MAXIMUM SOLUTIONS

## Mill-Max Offers New Through-hole Mount Omniball® Pins

*Three new rolling contact spring-loaded pins for secure through board solder mounting*



Mill-Max introduces new Omniball® spring-loaded pins with solder tails for through-hole mounting, offering more options for incorporating the Omniball® contact into product designs. This unique spring-loaded pin, in which the traditional plunger has been replaced by a gold plated, brass ball, is specifically designed for making connections between sliding or rotating components.

### Addressing Critical Market Needs

Omniball® spring-loaded pins excel in making connections between components which are mated together in a sliding or rotational motion rather than in an axial or vertical orientation. When engaged, the ball compresses and rolls, allowing the mating surfaces to make contact and then easily slide parallel to each other while spring force acts to ensure consistent electrical contact is maintained. These types of sliding or rotating connections are found in devices and equipment such as:

- Slip rings: Providing contact from stationery to continuously rotating components to transmit power and/or signals e.g. CT scanners, radar antennas, robotic arms
- Dial switches: To connect different circuits by rotating a knob or selector
- Sliding power connectors: Used in server drawers to allow hot swapping of components
- Slide switches: Basic switches that open or close a circuit by sliding a button

Three new products have been added to the Omniball® lineup: [7845-0-15-20-52-14-11-0](#); [7935-1-15-20-06-14-11-0](#); [7935-2-15-20-06-14-11-0](#). All three have tails for through hole mounting to PCBs, providing increased stability and strength for more demanding interconnect requirements. The 7845-0 joins the 0845-0 surface mount Omniball® to expand the large scale, higher current product lineup while the 7935-1 and 7935-2 offer low profile options with different tail lengths to accommodate a range of PCB thicknesses. These pins also have a barb press-fit feature on the body for assembling into plastic insulator housings or non-plated through-holes in printed circuit boards.

## Product Specifications

Specification	<a href="#">7845-0-15-20-52-14-11-0</a>	<a href="#">7935-X-15-20-06-14-11-0</a>
Max Stroke Capability	.060" (1.52 mm)	.030" (.762 mm)
Rated Travel (Mid-Stroke)	.030" (.762 mm)	.015" (.381 mm)
Force at Rated Travel	72 grams	60 grams
Current Rating	13* amps	8* amps
Initial Height (Above Board)	.384" (9.75 mm)	.208" (5.3 mm)
Contact Resistance	20 milliohms Max.	20 milliohms Max.
Termination Style	Solder tail	Solder tail

\*Current rating @ 30° C temperature rise, per IEC 60512-5. Derated current is 10.4A for 7845-0; 6.4A for 7935-X.

## About Mill-Max Manufacturing Corp.

Mill-Max is the leading US manufacturer of machined interconnect components with a vertically integrated manufacturing facility headquartered in Oyster Bay, NY. 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.

## Contact Information

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To discuss specific applications and requirements, contact Mill-Max technical services staff.

