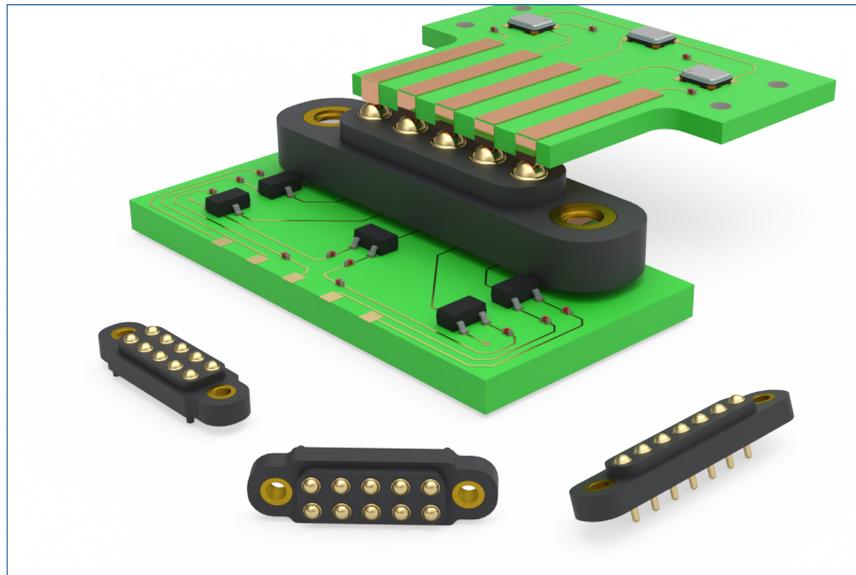


# MAXIMUM SOLUTIONS

## Mill-Max Spins Off a New Addition to The Omniball® Product Line

*Omniball® spring-loaded pins, designed for sliding and rotational connections, are now available packaged in single and double row connectors*



Mill-Max introduces new Omniball® spring-loaded connectors for applications requiring multiple points of contact in sliding or rotational orientations. The unique Omniball® spring-loaded contact (patent pending) features a rolling ball interface, enabling contact to be made between components in axial and non-axial alignments. These versatile connectors facilitate creative solutions for innovative interconnect arrangements while providing optimal electrical, mechanical, and structural reliability.

The connectors utilize Omniball® contacts, spring-loaded pins in which the traditional plunger has been replaced by a gold plated, brass ball. They are designed to optimize connections between components that slide or revolve into contact. 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. This rolling action prevents binding, premature wearing, and structural failure that traditional, plunger style, spring pin connectors can be prone to in these types of applications.

Omniball® connectors, offered in single and double row configurations, have a pin to pin spacing of 4 mm (.1575"), a .266" (6.76 mm) above board height and are available in through hole or surface mount termination styles. There are options for threaded inserts to provide secure mounting in rugged applications and for alignment pegs on the SMT connectors. Insulator material is Nylon 4/6, characterized by excellent high temperature performance, dielectric strength, and mechanical toughness. Omniball® contacts feature .030" (.762 mm) maximum stroke, gold plating on all components and a .091" (2.3 mm) diameter ball interface.

These spring-loaded pins are durable, they have been tested to 1,000,000 compression cycles and rolled over 67 miles (108 km) at half stroke while still meeting specifications for contact resistance of 30 milliohms, and spring force of 55 grams at mid stroke (.015", .381 mm). Single row connectors are offered in 2-10 positions; part numbers are 845-22-OXX-10-OX1101 (through hole) and 845-22-OXX-30-XX1101 (SMT). Double row connectors are offered in 4-20 positions; part numbers are 847-22-OXX-10-OX1101 (through hole) and 847-22-OXX-30-XX1101 (SMT).

These new connectors are an excellent choice for any application that involves sliding or rotating connections, such as: "twist & lock" cable connectors; docking stations; rack and server drawers as well as quick connects and blind mating applications. They can be mounted in vertical or horizontal orientations and can be used to eliminate cables where circuit board to bus bar connections are made in tight spaces.

For more information, please visit [www.mill-max.com/PR705](http://www.mill-max.com/PR705).

