

APPLICATION NOTES

Protect Your Open-Bottom Contacts with Mill-Max Organic Fibre-Plug® Receptacles

Advantages of Open-Bottom Receptacles

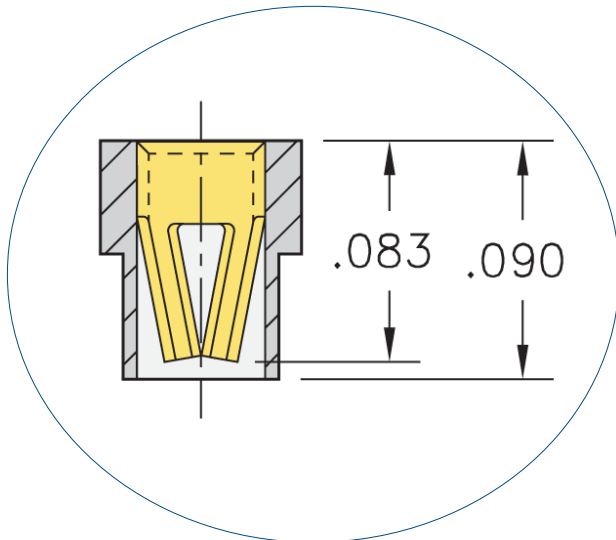
Open-Bottom Receptacles offer many advantages, such as allowing for lead length variation, multiple board stacking, and significantly reduced protrusion through the PCB.

Shorter Receptacles

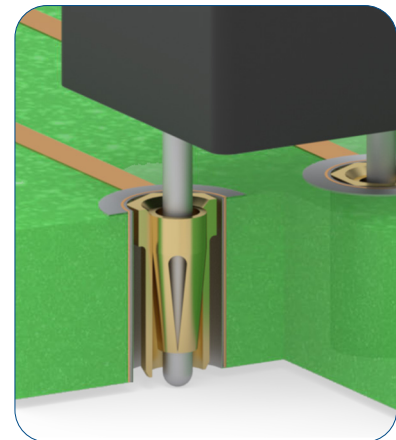
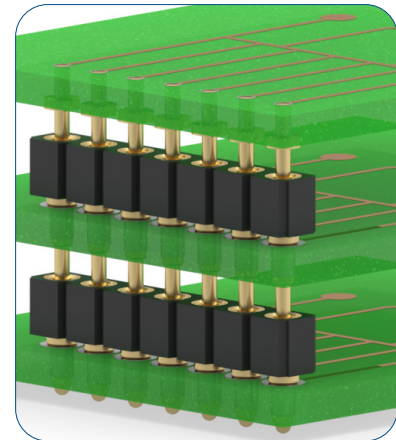
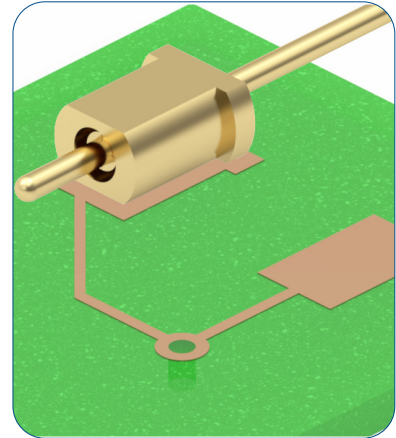
As advantageous as these receptacles are, concerns may arise with shorter designs which can leave the inner, multi-finger contact exposed to contaminants during solder operations. Solder may inadvertently wick into the critical contact area, thus rendering the receptacle defective, and unable to be mated to. Worse yet, entire board assemblies could be ruined, potentially costing thousands of dollars.

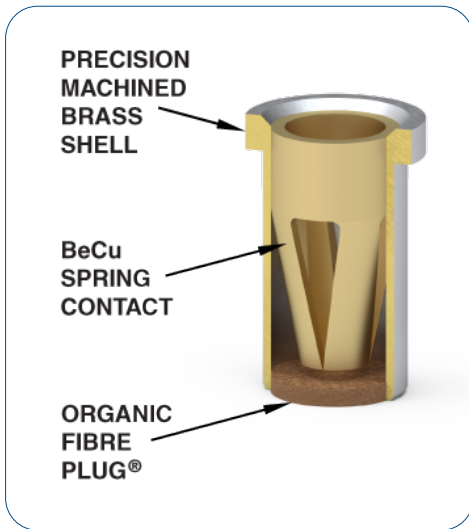
The Solution

Mill-Max has addressed these concerns with our Organic Fibre-Plug® Receptacles. Specially fitted with organic paper plugs, these receptacles ensure that the critical contact area is completely protected from solder and contamination during installation and solder operations.



On shorter receptacles, the inner contact can be exposed to solder contamination due to its close proximity to the open bottom of the shell.





Organic Fibre-Plug® Receptacle

From tape and reel to PCB placement, soldering, and component installation, the critical contact area is fully protected by the fibre-plug. And as your mating lead knocks out the fibre-plug upon assembly, there is no added plug-removal process required. You're left with just the reliable connection Mill-Max is so widely noted for!

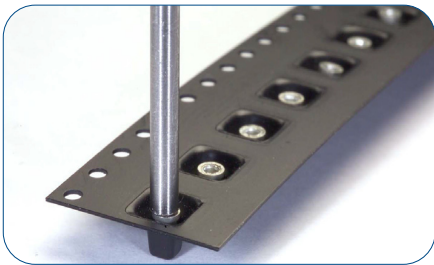


Figure 1: Vacuum Pick Receptacle

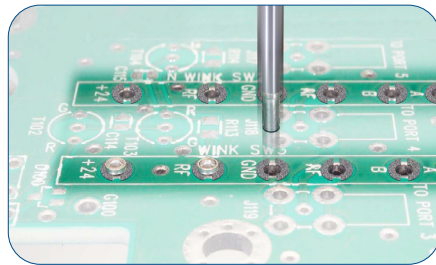


Figure 2: Receptacle placed on PCB

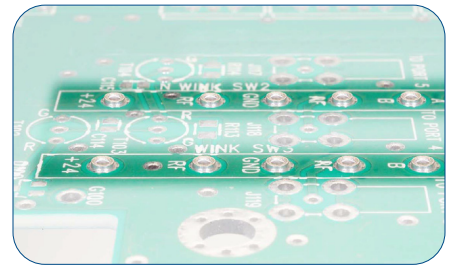


Figure 3: Assembled PCB in SMT Conveyor oven

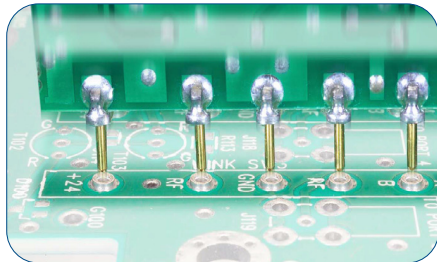


Figure 4: Install Component in Receptacles

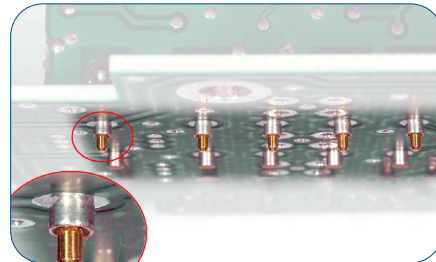


Figure 5: Components push out organic fibre plugs

