## **Contact Pucks**

# molex

Industry-leading miniature contact pucks offer superb contact quality and reliable docking-based charging of wearable and mobile devices

### **Features and Advantages**



Left to right: Contact pucks, pick-and-place cap (carrier) and pucks (solder-side) on cap

Pick-and-Place Cap Puck-carrier for pick-andplace assembly operations

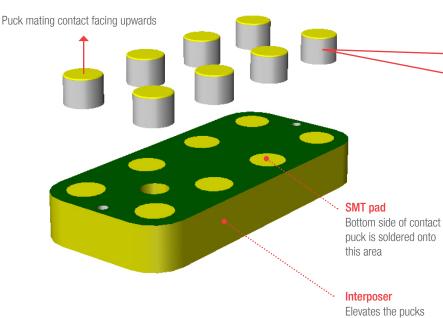
to the mating height

required by the

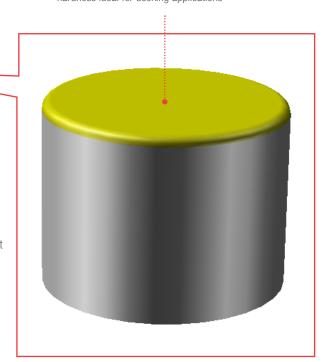
application

### Highly even gold-plated mating surface

Provides excellent electrical contact and mechanical hardness ideal for docking applications



The highly even mating surface of the puck is vital for good metal-to-metal contact and high electrical conductivity during charging (on docking stations). The smoothness of the puck surface is not manufacturable with ordinary machining. By profiling the puck such that the original thickness of the puck material is maintained, Molex is able to achieve a surface quality and finish not achievable by machining or polishing techniques.



Magnified view of the puck's mating surface

### **Applications**

### Consumer (Wearable Devices)

Electronic bracelets

Smart watches

Activity trackers

Fitness gadgets

Smart phones and mobile devices

Medical

Telehealth monitoring devices







Smart watches

## **Contact Pucks**



### **Specifications**

### REFERENCE INFORMATION

Packaging: Tape-and-Reel Mates With: Docking station contacts Designed In: (Millimeters or Inches)

RoHS: Yes Halogen Free: Yes Glow Wire Compliant: No

### ELECTRICAL

Voltage (max.): 50V DC Current (max.): 0.5A per contact Contact Resistance (max.): 10 milliohms

### PHYSICAL

Housing (Carrier or Cap): LCP E130i
Contact (Puck): Phosphor Bronze
Plating: Contact Area — 0.1 micron Gold (Au) min.
over full surface and 0.76 micron Gold (Au)
within 0.60mm internal diameter
Solder Area — 0.05 micron Gold (Flash) within
1.00mm internal diameter of PCB solder area
Underplating — Full Nickel (Ni) with 1.25 micron
Nickel within contact and solder areas
PCB Thickness (Interposer): Custom-specific
Operating Temperature: -20 to +70°C

### **MECHANICAL**

Pucks/Housing Contact Retention Force (min.): 1.0N Peeling Force (PCBA): 20N min.

### **Ordering Information**

Series No.	Part No.	Pucks Height	Description
105402	105402-0022	1	Pucks with Cap