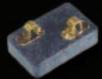


Cannon Universal Contact Series









Universal Contact

Universal Contact is an independent SMT contact which provides an electrical connection between a device and a PCB. The contact is manufactured as a single piece stamped product, incorporating pre-load and anti-lift features. The Universal Contact has been designed to replace traditional interfaces where the contact is custom designed into the component. It can be used to connect a number of device components in any direction and configuration using the same interface.

Features & Benefits of the Design

- Range of heights available:
 - 1.3mm contact with the minimum pitch of 1.35mm
 - 1.8mm contact with the minimum pitch of 1.25mm
 - 2.5mm contact the minimum pitch is 1.35mm
 - 3.5 & 4.0mm minimum pitch is 1.45mm
- Solderwell that prevents solder wicking up the contact
- "Side wings" protect the active parts of the contact which prevent contact from overstressing and potential damage
- Domed contact point allows good hertz stress and low contact resistance
- The X-Y-Z movement allows robust connection between the contact and component assembly during shock and vibration
- Compliant with WEEE and RoHS directives.

Materials & Finishes

Base material

Beryllium Copper

Plating

Selective Au in contact area 1 µm

min over Au stripe, 0.05 - 0.1 µm

min over Au stripe, 0.05 - 0.1 µm over

Ni 1.0 - 3.0 μm

Electrical

Contact resistance Max 20 m Ω

Max current rating 2.0 amps nominal 3.0 amps peak

Environmental

Operating temperature <u>-40°C and +85°C</u> Humidity Operable in 90% i

Operable in 90% relative humidity

(temp + 40°C)

Solder systems

Infrared and hot air reflow

Vibration

In accordance with IEC 68-2-36

Shock

In accordance with IEC 68-2-27, 30 g

Mechanical See selection table on the right for

contact forces at specific mating heights

Maximum mating cycle based on mating PCB plated with 0.05μ Au over 2.0μ m Ni = $3{,}000$ cycles. (Wear resistance is subject to mating component surface finish and plating type, increased mating component plating spec = increased mating cycles.)

Packaging

Packaged in 12mm wide tape & reel packaging to EIA-481 standards

Additional Advantages of using Universal Contacts

- Qualification time reduction same contact for many components
- Allows standard interface across applications and platforms
- Freedom to position at an angle not fixed by mating component

Applications

Handset

- Solderless component interconnect
- I/O connector / Board to board interconnect
- Battery contact / Antenna contact
- Grounding contact / SIM contact

Laptops & Computers

Memory Stick

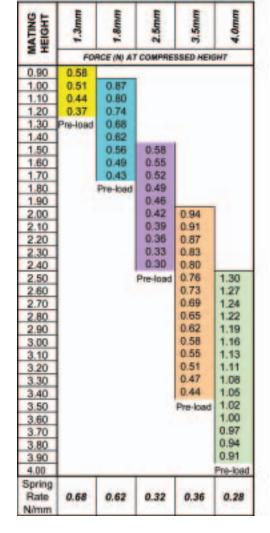
Home Electronic Devices / White Goods

- Smoke detectors / Security alarm systems
- Home appliances

Automotive - Keyfob

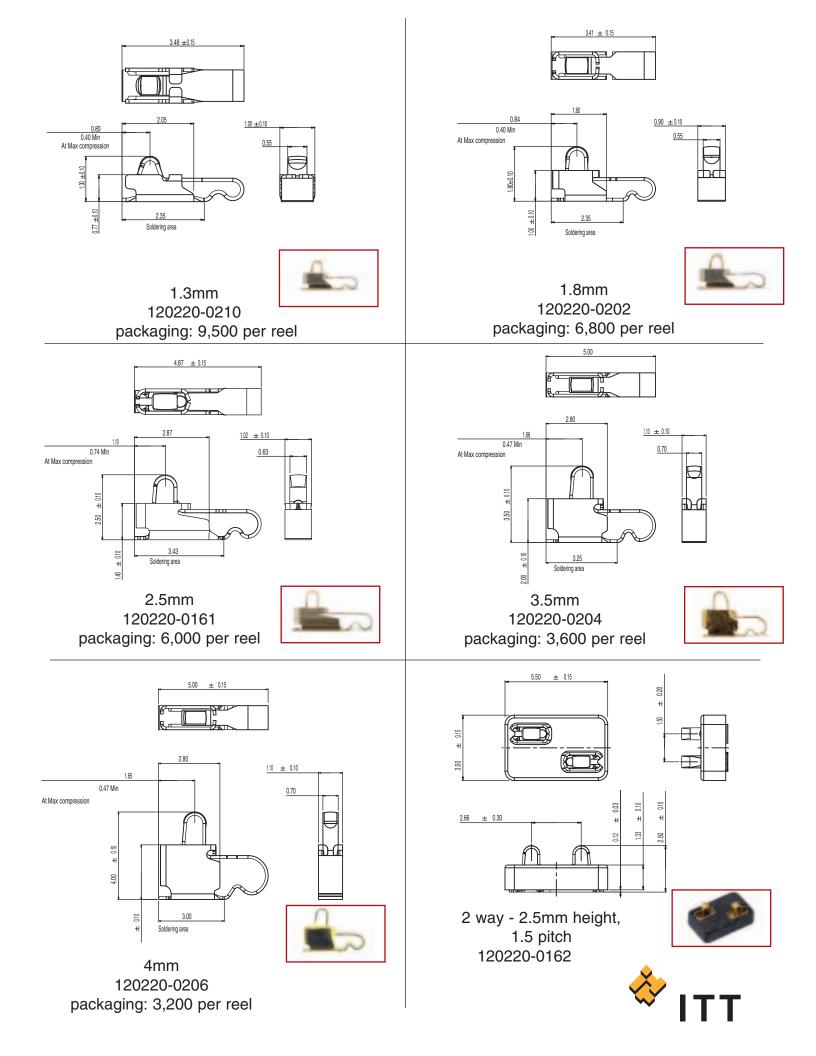
Medical - CT scan equipment

Industrial - Circuit breaker for GPS beckon



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Specifications and other data are based on information available at the time of printing, and are subject to change without notice.





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