## ITT

Interconnect Solutions Cannon, VEAM, BIW

Ensuring solider safety
in the harshest environments for

## 20 years <br> and over <br> 500,000 sINCGARS radios



Engineered for life

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:
- 1.3 mm contact with the minimum pitch of 1.35 mm
- 1.8 mm contact with the minimum pitch of 1.25 mm
- 2.5 mm contact the minimum pitch is 1.35 mm - $3.5 \& 4.0 \mathrm{~mm}$ minimum pitch is 1.45 mm
- 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.


## 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


## Materials \& Finishes

Base material
Plating

## Beryllium Copper

Selective Au in contact area 1 m min over Au stripe, 0.05-0.1 m over Ni 1.0-3.0 m

Electrical
Contact resistance
Max $20 \mathrm{~m} \Omega$

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

## Packaging

Packaged in 12 mm wide tape \& reel packaging to EIA-481 standards
2.0 amps nominal 3.0 amps peak

Environmental
Operating temperature
Humidity

Solder systems
Vibration
Shock

Mechanical
Max current rating
$-40^{\circ} \mathrm{C}$ and $+85^{\circ} \mathrm{C}$
Operable in $90 \%$ relative humidity (temp $+40^{\circ} \mathrm{C}$ ) Infrared and hot air reflow In accordance with IEC 68-2-36 In accordance with IEC 68-2-27, 30 g

See selection table on the right for contact forces at specific mating heights

## 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




## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for ITT manufacturer:
Other Similar products are found below :
MS3106E22-14P CT6E18-11SCA206 MS3101E2214PW CB1-18-1SSA34 MDM-37PCBR-F222 MS3101E2222SX KPSE06F2041SA206F0 CA3102E16-11SWB109 DDM50SA190 CA3101E10SL-4PBA176F42 MS3101E181SW CB2-14S-6SCA232 CA3101E10SL4SF80DN M243082293Z CB2-14S-5SCA232 KPSE00E10-6PW MS3102R16-10SY 024251-0016-R 024253-0025 024265-0001 0242700015 024271-0022 024273-0043 024288-0001 M24308/24-21F CT1F22-7SS CT2-20-23SWS CT2-20-23SXS CT6E24-10PS-A206 CT6F24-9PCA206 CT6F36-10PCA152 CT6F9767-14-4-14S-5PC CT6M20-23SXS CT6M20-23SYS CT6M20-23SZS D38999/20WJ35BC D38999/20WJ35SC D38999/26JH21PB-LC MD1-21PS MDB1-9SH001 MDM-15PH001B-A174 MDM-15PH003B-A174 MDM-21SCBRA174 MDM25PH003BF222 MDM-31SBRP MDM-37PBRT MDM37SH004PA174 MDM-37SH013P MDM-51SCBRPL56 MDM96514336

