

APPLICATION NOTE

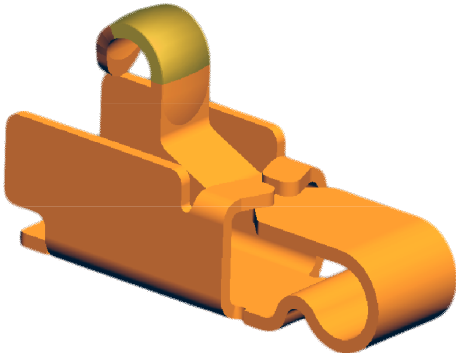
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Universal GPS Contact

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The Challenge

With the availability of GPS features within hand-held devices (Mobile telephones and PDA devices), transmit and receive frequencies now are above the 1.8 GHz range. Bringing these signals to the printed circuit board through the antenna without changing the signal wave or length is a major issue. Coupled to this challenge was the need for .3 N's of contact force when mated.



The ITT Solution ...

ITT ICS developed a 1.8mm dry circuit pressure contact that when mated and deflected, the contact beam stayed true to position with no conductivity to the side walls affecting the signal length or wave while achieving .3 N's force with a unique contact design. The 1.8mm GPS Universal Contact is a single piece stamped and formed BeCu interconnect with all the identical features and benefits found within the Universal Contact Family.

Product Features

- Deflection of 0.9mm, free height of 1.8mm
- .3 N's of force with .1mm of beam movement
- X-Y-Z movement allows for a robust connection to the antenna
- Domed contact mating point
- Side Wings

Applications

- Mobile Telephone
- Wireless gaming
- PDA Units
- PC Card Devices
- GPS Devices

Benefit to the Customer

- Low Cost, robust design
- Freedom of board positioning
- Can handle high frequency signals
- High hertz forces

For application assistance, please contact:

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