

Universal Contact Z

The new UCZ dry circuit pressure contacts are reinventing perfection.



ITT

ENGINEERED FOR LIFE

The Challenge

Within the hand held market high hertz forces and effective repeatability are important factors to maintain product reliability. A customer approached ITT looking for these benefits in a small form factor. They were interested in an improved VSWR with reduced real estate space and beryllium free materials. The customer contacted ITT based on our strong history as a supplier of over 4 billion standard contacts without a single field failure.

The Engineered Product Solution

ITT met the customers challenge with the UCZ product series. Selecting titanium copper alloy in lue of the industry standard beryllium copper was key in the product development. Using titanium copper alloy allows the user a beryllium free contact versus a RoHS compliant connector that does not sacrifice electrical or mechanical performance . Once the alloy was tested and achieved positive results, the thickness and required radii were determined to achieve high hertz forces, maximum deflection and low contact resistance.

Innovative Interconnect Benefits

- Reduced footprint / pad layout allowing for space savings on the board
- Manufacturing forgiveness in sub assembly tolerance
- Improved electrical performance
- 100% "green" materials

Attributes and Values

- 25% reduction in length freeing up board space compared to industry standard
- Improved RF performance for antenna applications
- Beryllium free
- Six free heights will be available
- Heights available in March 2012 including, 1.8mm, 2.5mm and 3.5mm



Applications

- Smart Phones
- GPS Navigation Devices
- Medical Hand Held Monitoring Devices
- Military Communication Devices
- Computing Equipment
- Security Systems



Scan here for more information

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