



connecting power

Battery contacts

with spring
loaded pins for
SMD mounting

SMD battery contacts

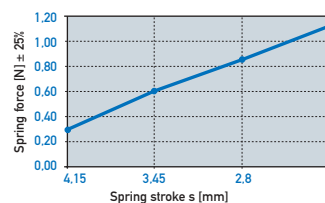
With a range of standard SMD battery contacts for GSM and UMTS applications, IMS Connector Systems offer an extremely interesting and cost efficient alternative to customised battery connecting solutions. The product shows a very compact design and fulfills the high mechanical and electrical requirements for mobile phones and similar applications.

The battery contacts have been developed by IMS Connector Systems incorporating many years of experience with mobile phone components. They are available ex stock without design and tooling costs.

Product features

- Compact and robust design
- Suitable for high current applications
- High tolerance compensation
- High number of matings
- Lead-free soldering, up to 250°C
- Secure quality through fully automated production process
- Suitable for pick and place machines

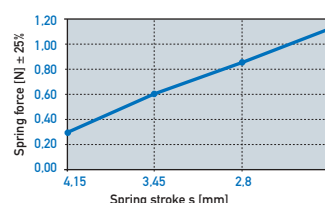
AGK 3370



Spring force: 0.6 ± 0.15 N at nominal working height
maximum stroke: 1.1 mm



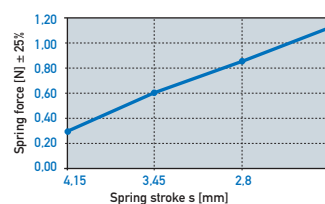
AGK 3434



Spring force: 0.6 ± 0.15 N at nominal working height
maximum stroke: 1.1 mm



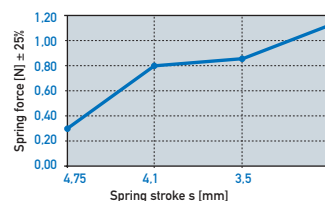
AGK 3435



Spring force: 0.6 ± 0.15 N at nominal working height
maximum stroke: 0.95 mm



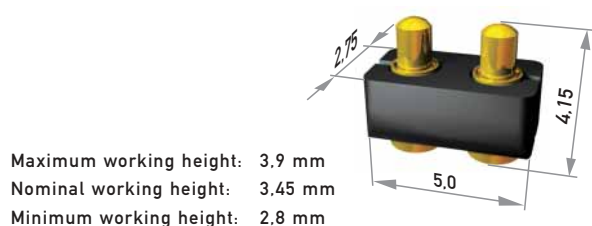
AGK 3224



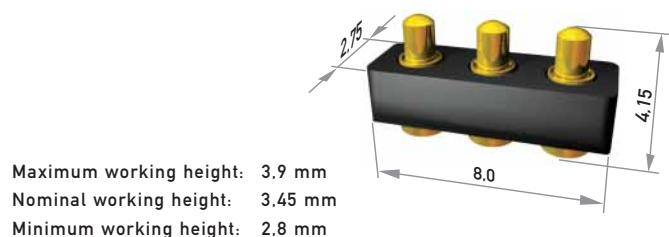
Spring force: 0.8 ± 0.15 N from nominal to minimum working height
maximum stroke: 1.05 mm



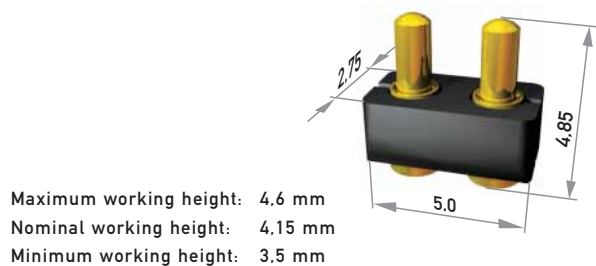
AGK 3370-2P



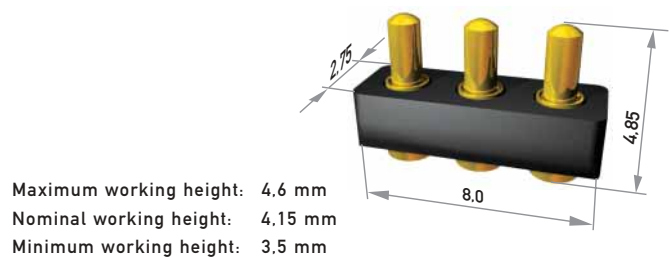
AGK 3370-3P



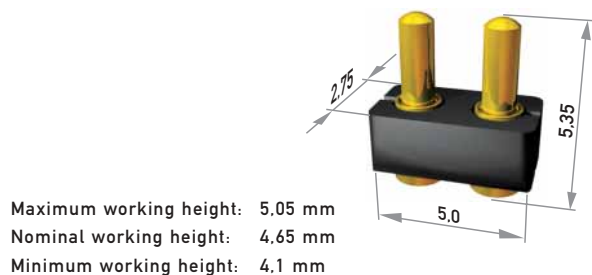
AGK 3434-2P



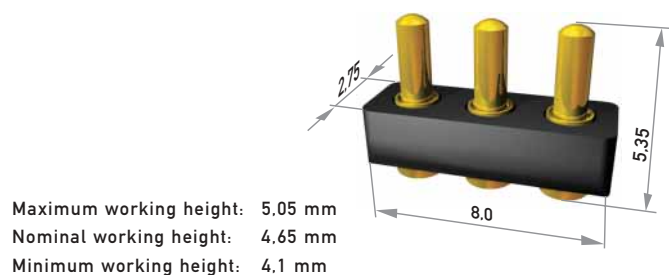
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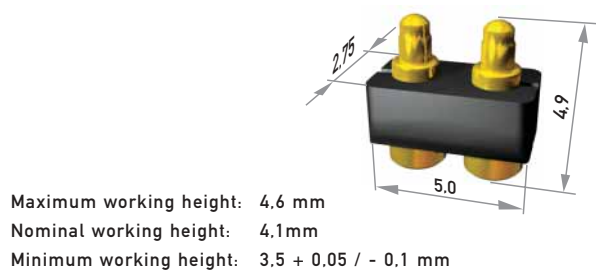
AGK 3435-2P



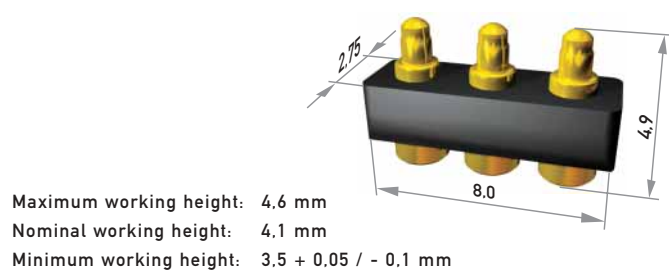
AGK 3435-3P



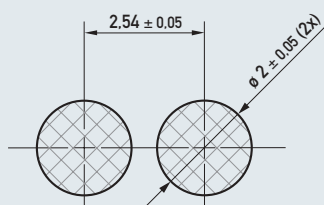
AGK 3224-2P



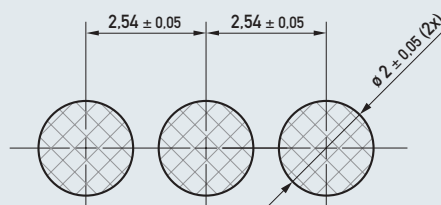
AGK 3224-3P



Solderpad layout

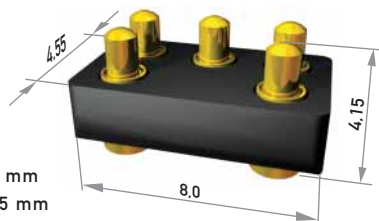


Solderpad layout



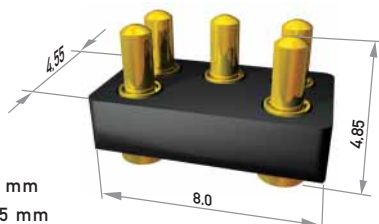
AGK 3370-5P

Maximum working height: 3.9 mm
Nominal working height: 3.45 mm
Minimum working height: 2.8 mm



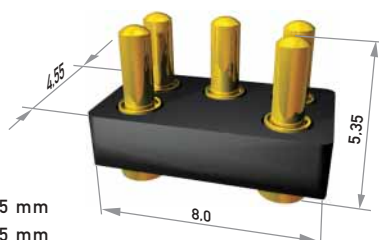
AGK 3434-5P

Maximum working height: 4.6 mm
Nominal working height: 4.15 mm
Minimum working height: 3.5 mm



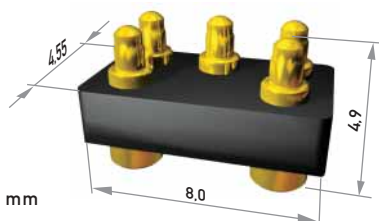
AGK 3435-5P

Maximum working height: 5.05 mm
Nominal working height: 4.65 mm
Minimum working height: 4.1 mm

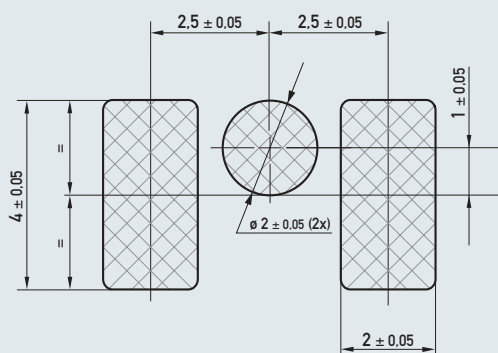


AGK 3224-5P

Maximum working height: 4.6 mm
Nominal working height: 4.1 mm
Minimum working height: 3.5 + 0.05 / - 0.1 mm



Solderpad layout



Electrical characteristics

Impedance

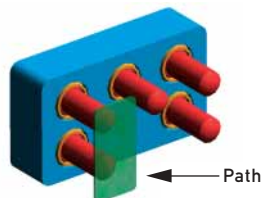
Contact resistance < 100 mOhm

Operating voltage 60 VDC

Proof voltage 500 VAC

Current per contact-pin 2.0 A at test conditions
- movement 0.1 mm
- cycles 200/min
- 5000 cycles

Current per contact-path 4.0 A at test conditions
- movement 0.1 mm
- cycles 200/min
- 5000 cycles



Material & Plating

Housing PPS, color black

Piston CuZn, 0.8 µm Au

Sleeve CuZn, 0.2 µm Au

Pin CuZn, 0.8 µm Au

Spring DIN 17223 Tribor

Cap (AGK 3224) CuZn, 0.2 µm Au

Mechanical & Environmental

Durability > 5000 cycles

Operating temperature IEC 60068-2-1, Aa -25 °C
IEC 60068-2-2, Bb +85 °C

Storage temperature IEC 60068-2-1, Aa -40 °C
IEC 60068-2-2, Bb +85 °C

Damp heat, cyclic IEC 60068-2-30, Dd
Upper temperature +55 °C, 6 cycles

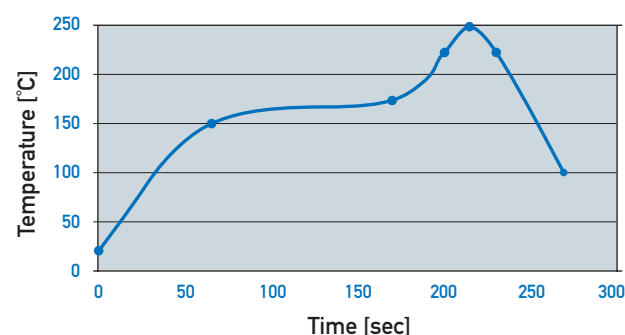
Salt mist IEC 60068-2-52, Kb, Var.2

Random vibration IEC 60068-2-64, Fh

Shock IEC 60068-2-27, Ea, 60 G

Bump IEC 60068-2-29, Eb, 40 G

Recommended soldering profile



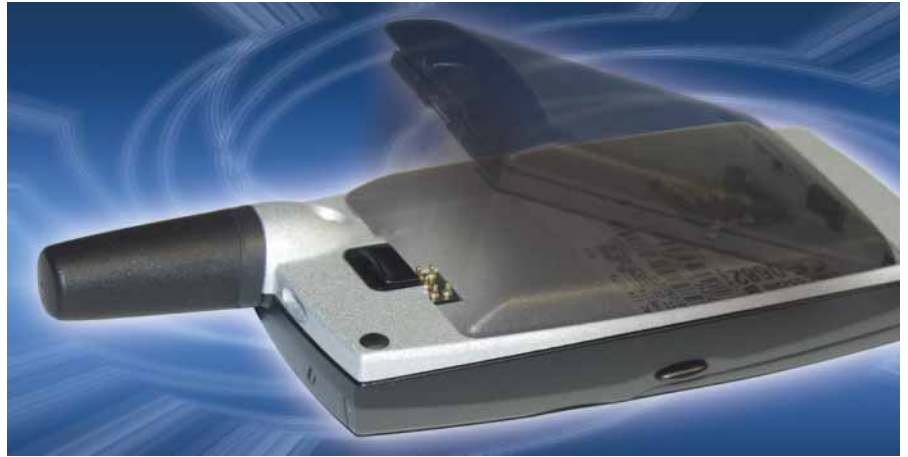
Max. temperature 250°C (lead free soldering)

Soldering remarks

No manual hot gas soldering or soldering by using the soldering iron is allowed.

Design options

The different versions available, the low distance between PCB and contact area and the high tolerance compensation offer high flexibility for various design applications.

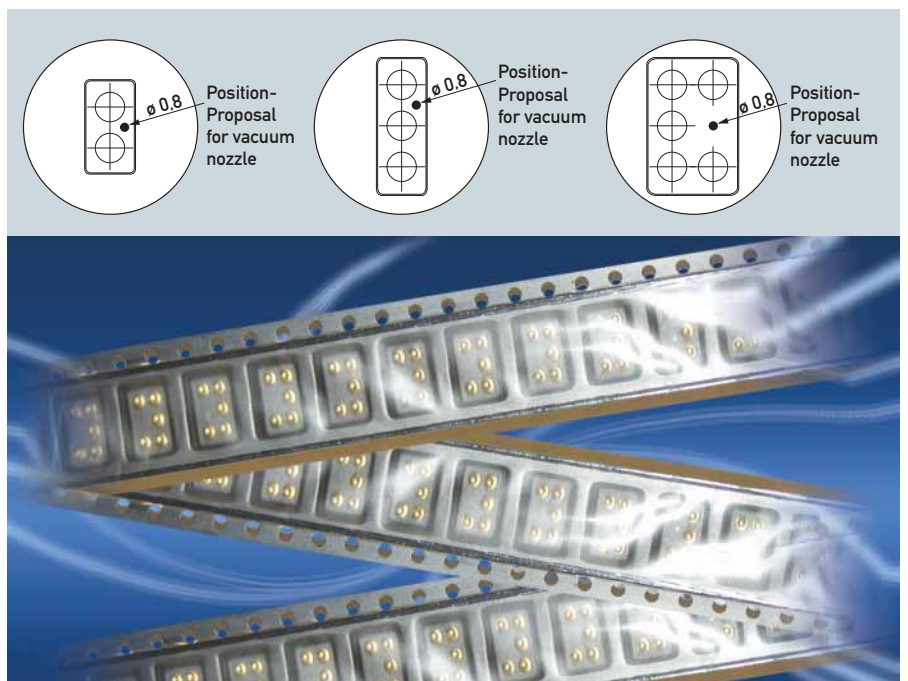


Quality standards

The battery contacts are manufactured in a fully automated and computer controlled process. This guarantees a very high quality standard and as a consequence avoids cost in your supply chain.

Pick and place

The SMD battery contacts are supplied on tape and reel packing which meets the requirements of pick and place machines (IEC 286-3; EIA 481).



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