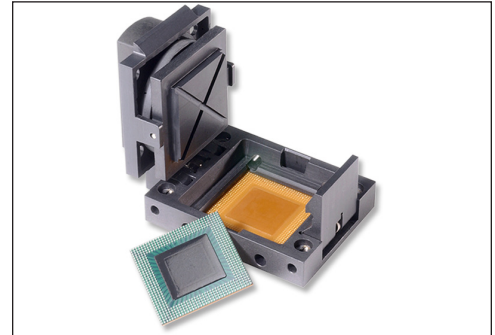




CSP/ μ BGA Test & Burn-In Socket for Devices up to 55mm Square

FEATURES

- For Test & Burn-In of CSP, μ BGA, DSP, LGA, SRAM, DRAM and Flash Devices. Consult factory for QFP applications
- Any device on 0.30mm pitch or larger
- 4-point crown insures "scrub" on solder oxides
- Single-point Probes available for small land area contact pads
- Signal path during test only 0.077 [1.96]
- Socket is easily mounted and removed to & from the BIB due to solderless pressure mount compression spring probes which, are accurately located by two molded plastic alignment pins and mounted with four stainless steel screws
- The gold over nickel plated compression spring probes leave very small witness marks on the bottom surface of the device solder balls
- Standard molded socket format can accommodate any device package of 55mm square or smaller
- The spring-loaded, cam-actuated Pressure Pad applies proper force against the device after the lid is closed, latched and the cam is rotated to it's detented location. Reversing the cam removes the force applied to the device prior to unlatching the spring loaded lid to it's upright position



CUSTOMIZATION: In addition to the standard products shown on this page, Aries specializes in custom design and production. Special materials, platings, sizes, and configurations can be furnished, depending on the quantity. **NOTE:** Aries reserves the right to change product general specifications without notice.

GENERAL SPECIFICATIONS

- MOLDED SOCKET COMPONENTS: UL94V-0 PEEK and/or Ultem
- 1dB BANDWIDTH: at 1GHz (0.80mm pitch) (large probe)
- ESTIMATED CONTACT LIFE: 500,000 cycles
- COMPRESSION SPRING PROBES: heat-treated BeCu with 30 μ [0.75 μ] min. Au per Mil-G-45204 over 30 μ [0.75 μ] min. Ni per SAE-AMS-QQ-N-290
- CONTACT FORCE : 15g per contact on 0.30-0.35mm pitch
: 16g per contact on 0.40-0.45mm pitch
: 25g per contact on 0.50-0.75mm pitch
: 25g per contact on 0.80mm pitch or larger
- OPERATING TEMPERATURE: -55°C [-67°F] min. to 150°C [302°F] max.
- ALL HARDWARE: Stainless Steel
- TYPICAL BURN-IN TEMPERATURE: 150°C max.

MOUNTING CONSIDERATIONS

- See "PCB FOOTPRINT TOP VIEW" for requirements.
- NOTE: Sockets must be handled with care when mounting or removing sockets to/from PCB
- TEST PCB DIAMETER "G" : 0.025 [0.64] (large probe 0.80mm pitch and larger)
: 0.015 [0.38] (small probe 0.50-0.75mm pitch)
: 0.012 [0.31] (small probe 0.40-0.45mm pitch)
: 0.009 [0.23] (small probe 0.30-0.35mm pitch)
- TEST PCB DIAMETER SPRING PROBE PAD PLATING: 30 μ [0.75 μ] min. Au per MIL-G-45204 over 30 μ [0.75 μ] min. Ni per SEA-AMS-QQ-N-290. Pad must be the same height as top surface of PCB. Please refer to the Custom Socket Drawing supplied by Aries after receipt of your order for your specific application.

ORDERING INFORMATION

Get an Insta-Quote

A detailed device drawing must be sent to Aries to quote and design a socket.

See Data Sheet...

- [23021](#) μ BGA up to 6.5mm
- [23017](#) μ BGA up to 13mm
- [23018](#) μ BGA up to 27mm
- [23018-APP](#) w/Adj Pressure Pad
- [23019](#) μ BGA up to 40mm
- [24013](#) RF up to 6.5mm
- [24008](#) RF up to 13mm
- [24009](#) RF up to 27mm
- [24009-APP](#) w/Adj Pressure Pad
- [24011](#) RF up to 40mm
- [24012](#) RF up to 55mm
- [23016](#) CSP/BallNest™ Hybrid
- [24010](#) RF Machined Socket
- [23022](#) Kelvin Test Socket



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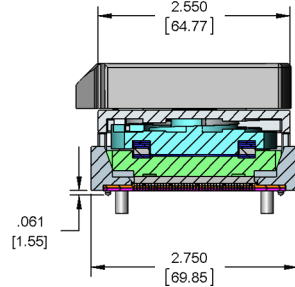
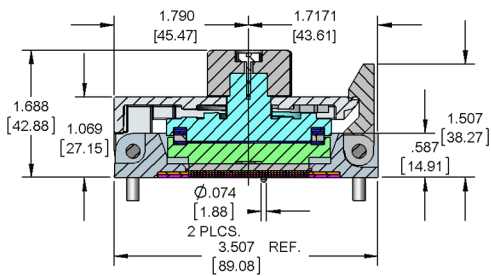
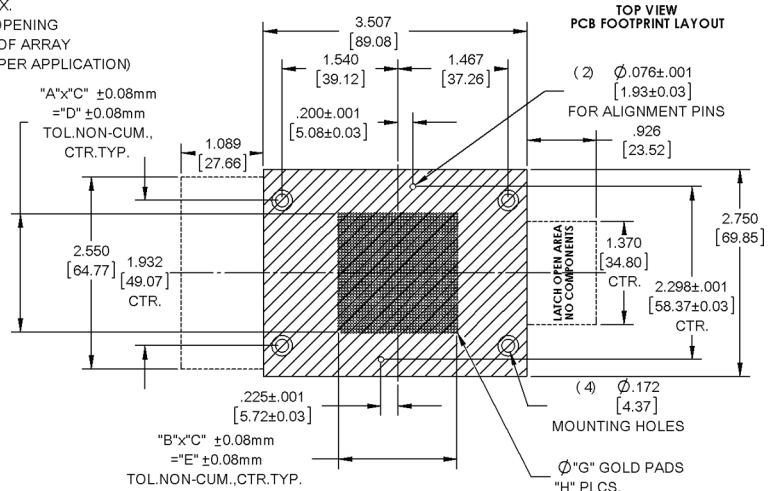
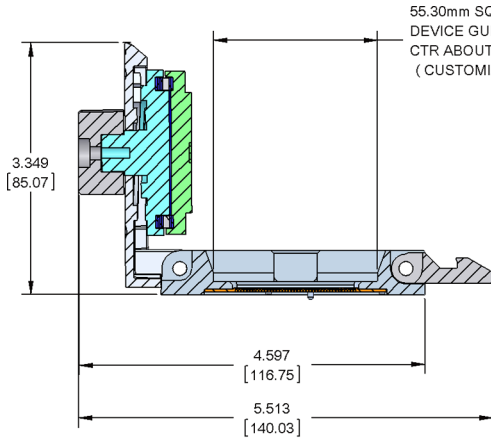


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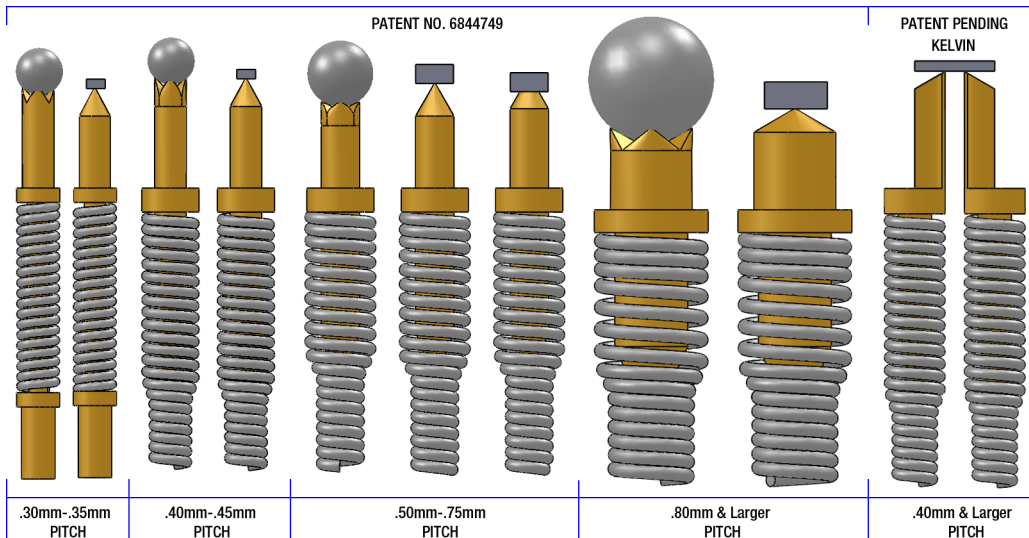
ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES: ± 0.005 [0.13] UNLESS OTHERWISE SPECIFIED

CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS



"A" & "B" = NUMBER OF ROWS IN ARRAY-1
"C" = PITCH
"D" & "E" = (NUMBER OF ROWS IN ARRAY-1) \times PITCH
"F" = SPRING CONTACT OUTSIDE DIAMETER
"G" = PCB PAD DIAMETER
"H" = NUMBER OF CONTACTS/PADS



SPRING PROBES



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Rev. AA