



CSP/BallNest™ Hybrid Socket

FEATURES

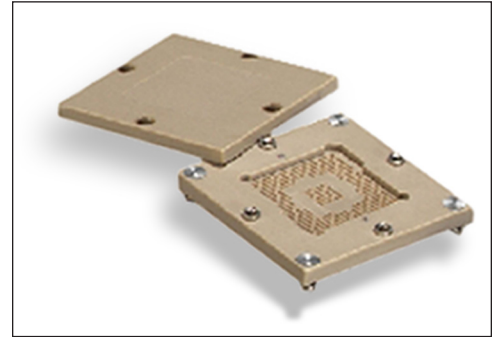
- Any grid size available on 0.30mm pitch or larger
- Socket lid nests device into socket for a reliable connection
- Suitable for prototyping, test, or burn-in of CSP, BGA, μ BGA and LGA devices
- ZIF style socket using Aries solderless, gold-plated pressure mount Spring Probe
- Special lid designs and/or materials can be quoted
- Socket easily located, mounted & removed from PCB
- Signal path during test only 0.077 [1.96]
- 4-point crown insures "scrub" on solder oxides. Consult factory for other available probe styles
- The gold over nickel plated compression spring probes leave very small witness marks on the bottom surface of the device solder balls

SPECIFICATIONS

- Body Material: PEEK or TORLON
- 1dB Bandwidth: 1GHz (0.80mm pitch) (large probe)
- Estimated Contact Life: 500,000 cycles
- Compression Spring Probes: heat-treated Beryllium-Copper with 30 μ min. [0.75 μ] Gold per Mil-G-45204 over 30 μ min. [0.75 μ] Nickel 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
- Screws and Alignment Pins: Stainless Steel
- Inserts: Brass Alloy per QQ-B-626, Tin-plated
- Operating Temperature Range: -55°C to 150°C [-67° to 302°]

MOUNTING CONSIDERATIONS

- Sockets must be handled with care when mounting or removing sockets to/from PCB
- Test PCB Diameter "P" : 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 Spec: 30 μ " min. [0.75 μ] Gold per MIL-G-45204 over 30 μ " min. Nickel 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.



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

ORDERING INFO

CONSULT FACTORY FOR P/N

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

23020 μ BGA up to 55mm

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

24010 RF Machined Socket

23022 Kelvin Test Socket



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23016
Rev. F



CONSULT FACTORY for DIM. "A" - "S"

SPRING PROBES



23016
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