FEATURES

- Aries unique universal socketing system allows the socket to be easily configured for any package, on any pitch (or multiple pitch) from 0.2mm or greater, in any configuration, with little or no tooling charge or extra lead-time.
- For Test & Burn-In of CSP, µBGA, Bump-Array, QFN, QFP, MLF, DFN, SSOP, TSOP, SOP, SOIC, LGA, LCC, PLCC, TO and any SMT package style made. Also can be compatible with PGA packaged devices.
- Quick and easy Probe Replacement System: the complete set of probes can be removed and a new set (interposer) can be inserted quickly and easily. The old set can be returned to the factory for repair and sent back within one day.
- Socket lid nests device into socket for a reliable connection.
- ZIF style socket using Aries solderless, Au-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 Au over Ni-plated compression Spring-Probes leave very small witness marks on the bottom surface of the device solder balls.

GENERAL 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 BeCu with 30µ [0.75µ] min. Au per MIL-G-45204 over 30µ [0.75µ] min. Ni per SAE AMS-QQ-N-290
- CONTACT FORCE: 6g per contact on 0.20-0.29mm pitch
  : 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 per QQ-B-626, Sn-plated
- OPERATING TEMPERATURE RANGE: -55°C to 150°C [-67° to 302°]

MOUNTING CONSIDERATIONS

- NOTE: Sockets must be handled with care when mounting or removing sockets to/from PCB
- TEST PCB MINIMUM 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)
  : 0.004 [0.10] (small probe 0.20-0.20mm pitch)
- TEST PCB DIAMETER SPRING PROBE PAD PLATING: 30µ [0.75µ] min. Au per MIL-G-45204 over 30µ [0.75µ] min. Ni per SAE 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.
CSP/Hybrid Socket

ALL DIMENSIONS: INCHES [MILLI-METERS]
ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED

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.

FULL-ARRAY SHOWN AS AN EXAMPLE; YOUR SPECIFIC DEVICE PATTERN/FOOTPRINT WILL BE SUPPLIED WHEN ORDERED.