



High Frequency Center Probe Test Socket For Devices Up to 55mm Sq.

FEATURES:

- For High Frequency Test of CSP, BGA, DSP, LGA, SRAM, DRAM and Flash Devices.
- Any device on 0.50mm pitch or larger.
- 4 Point crown insures "scrub" on solder oxides, while pointed probe works with LGA's, MLF's, etc.
- Single Point Probes available for small land area contact pads.
- Signal path during test only .077" (1.95mm)
- Socket is easily mounted and removed to & from the test board 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 solderballs.
- Standard molded socket format can accommodate any device package of 55mm² 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.

GENERAL SPECIFICATIONS:

- Mutual Capacitance: .012pF.
- Molded socket components are UL94V-0 PEEK and/or Ultem.
- 1dB Bandwidth to 18.5Ghz (0.50mm pitch) (small probe) <3dB to 39.7Ghz.
- Pin Self-inductance: 0.59nH.
- Contact Resistance: <40 milliohms.
- Estimated Contact Life: =500,000 cycles.
- Compression spring probes are heat treated Beryllium Copper Alloy with 30u" min. [.75um] Gold per Mil-G-45204 over 30u" min.[.75um] Nickel per QQ-N-290.
- Contact Force = 9-12g per contact on 0.50 - 0.75mm pitch
17-20g per contact on 0.80mm pitch or larger.
- Operating Temperature = -55°C (min.) to 150°C (max.); -67°F (min.) to 302°F (max.).
- All Hardware is Stainless Steel.

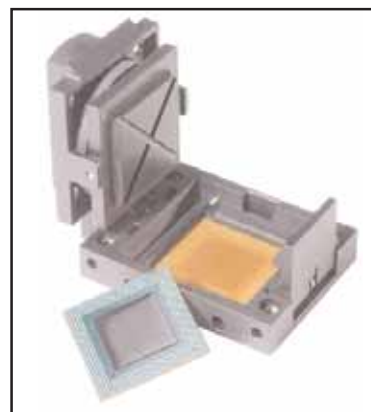
MOUNTING CONSIDERATIONS:

- See "PCB FOOTPRINT TOP VIEW" for requirements.
- Sockets must be handled with care when mounting or removing sockets to/from PCB.
- Test board PCB pad diameter = .025" (0.635mm) (large probe)
= .015" (0.381mm) (small probe)

SEE RF DATASHEETS:
24008 FOR UP TO 13MM
24009 FOR UP TO 27MM
24011 FOR UP TO 40MM

ALL DIMENSIONS: INCHES [MILLIMETERS]

All tolerances ± .005 [.13]
unless otherwise specified

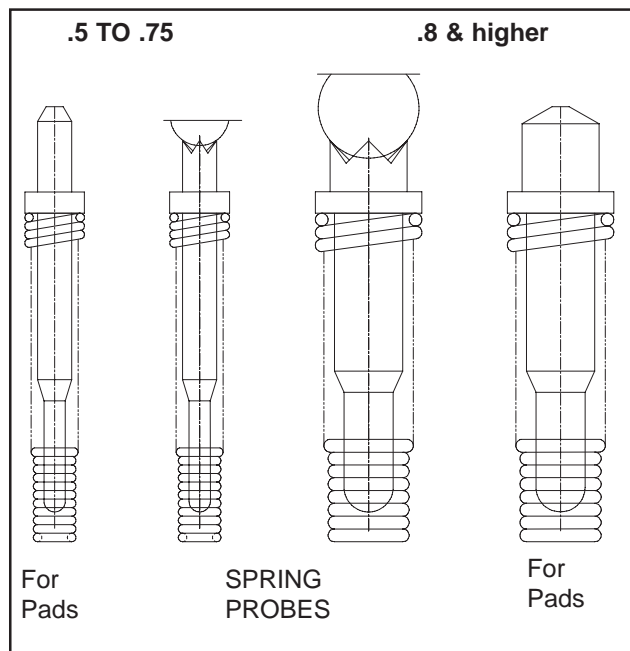


Note: Aries specializes in custom design and production. In addition to the standard products shown on this page, special materials, platings, sizes, and configurations can be furnished, depending on quantities. Aries reserves the right to change product specifications without notice.

ORDERING INFORMATION

CONSULT FACTORY

PATENT PENDING



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 Rev. C
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