

RECEPTACLES TEST

Integrated circuit receptacles from Antares Advanced Test Technologies allow for the quick and easy exchange of sockets without the costly damage of desoldering them from the load boards. Since sockets wear out more quickly than boards or receptacles, all leading semiconductor manufacturers and test houses use receptacles to protect the boards and extend their life.

Any Device. Any Socket.

BGA, micro-BGA, LGA, CSP

Antares receptacles are engineered to exacting standards and mate with practically any test or burn-in socket from Yamaichi, Nepenthe, Enplas, 3M/Textool, Plastronics, WELLS-CTI, and many others. Our proprietary designs utilize the best contacts and materials available. Standard receptacles are compatible with socket pitch patterns as dense as 1.00mm. Custom Receptacles for pitches as small as 0.50mm are also available (see below).

Contact Types

Antares receptacles are available with many different contact types and solder tail lengths. Contact types are usually determined based on mechanical details of the test socket terminals. Contact our sales department for assistance in selecting the correct contact type for your application.

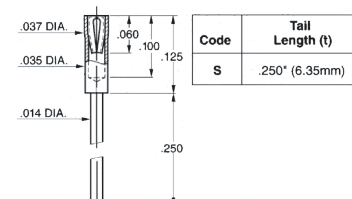
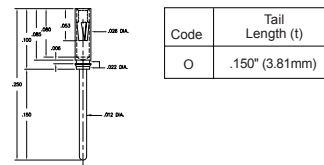
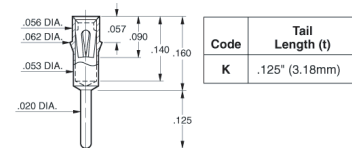
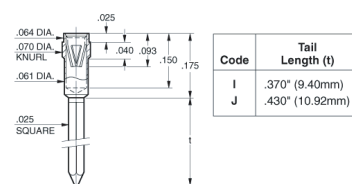
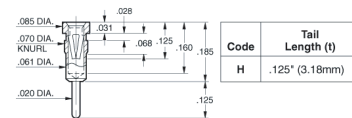
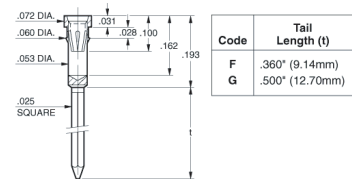
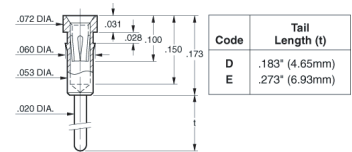
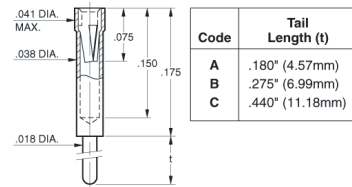
Body Styles

Solid, Standoff, or Standard

Solid Body: Excellent mechanical support of the the test socket because the plastic body of the receptacle sits flush on the load board. This provides added support under test pressure from the handler.

Standoff Body: The best of both worlds where the underside of the receptacle is machined to form standoffs in the corners of the receptacle. It has the mechanical stability of the Solid Body with the maintenance accessibility of the Standard Body

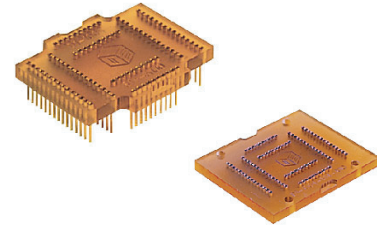
Standard Body: The barrels of the contact pins extend out from the plastic body in order to create an air gap for easier cleaning after soldering.



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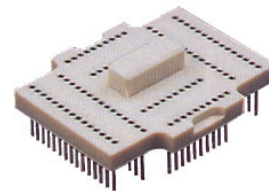
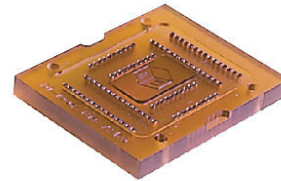
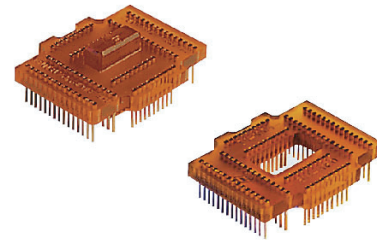
Notched or Square Corners

The Notched Corner style is used with some automated test handlers in which the test socket is mounted to the handler's metal Docking Plate (interface). This is standard for Seiko Epson, Tesam-JLSI, Synax and other pick-and-place handlers. The Square Corner style is common for hand test or burn-in.



The Bump™, Flat or Center Hole

The Bump™ mates with the body contour of the test socket and guides the terminals of the socket before insertion. This Antares-patented feature allows for quick and easy assembly and reduces bent or cracked pins. The Bump™ is available for most production sockets and on most receptacle body styles. As an alternative to The Bump™, nearly all Antares receptacles can be made flat or with a center hole. The center hole permits access to the test socket or stacking with other receptacles featuring The Bump™.

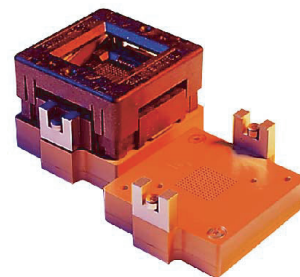


Grooved

When the socket terminals have extra long leads that exceed the depth of the receptacle contacts, Antares' receptacles can be grooved. This eliminates the gap between the socket and the receptacle body to mechanically support the socket.

High-Temperature/High-Stress Materials

The standard material for Antares' receptacles is Ultem™. All of Antares' receptacles are available in a variety of high-temperature/high-stress materials. For example, Techtron™ is a chemical and temperature-resistant material that virtually eliminates cracking and warping under extreme conditions. Other materials are available if requested.



Custom Receptacles

Antares can design any non-standard features to your specifications. We have receptacles down to 0.5mm pitch.