

## SOCKETS - BGA CUSTOM HIGH SPEED 4.6 GHz to 14 GHz

### COMPRESSION SOCKETS, POGO-PIN BASED

ET's custom high speed test sockets are available for any package on the market. The Clam Shell style with a floating package nest and floating lid ensures reliability. The sockets can also be designed to fit an automated handler or BGA solder footprint. These sockets are spring probe based and exhibit very high mechanical and electrical performance. We have ultra high performance spring probes available that will reach bandwidths of 4.6 to 14 GHz.

### FEATURES & BENEFITS

- Precision micro-probe contacts display ideal electrical characteristics such as low inductance, resistance, and capacitance
- Custom designed and manufactured for any standard or non-standard package, for which an off the shelf socket does not exist, or the existing socket is not suitable for the user specifications
- Mount surface on chip (SOC) test fixtures using double-ended pogo pin technology
- Sockets are designed for long life of up to 5,000 insertions
- All socket contacts are individually replaceable in field, making repairs quick, easy and cost-effective
- Can be repopulated to accommodate different footprints

### APPLICATIONS

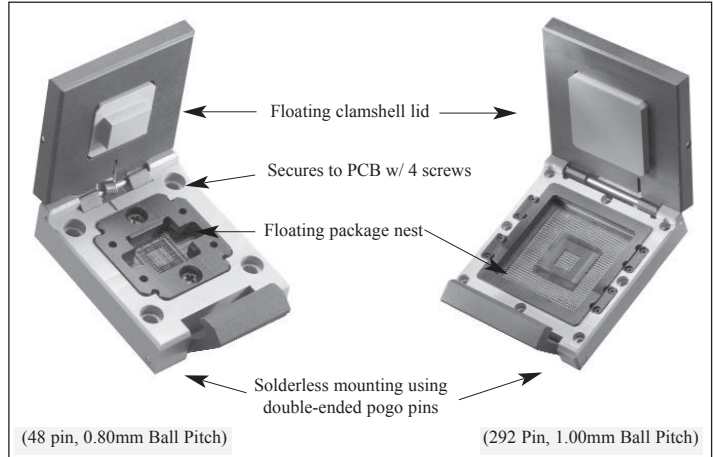
- Development
- Debug
  - Hand Test
- Programming / Test
  - Qualification
  - Production

### BALL PITCH

- BGA (1.27mm)
- mBGA (1.00mm, 0.80mm, 0.75mm, 0.65mm, 0.50mm)

### GRID SIZES

- 8X8 through 40X40



**Ordering Information Example**

Socket Type \_\_\_\_\_ Internal Use  
 Product Code — S-BGA-20-292-A  
 Grid Size \_\_\_\_\_ Pin Count

| <i>Electrical Specifications</i> |                                      |
|----------------------------------|--------------------------------------|
| Bandwidth                        | 4.6GHz to 14GHz depending on contact |
| Contact Resistance               | <50m Ohms                            |
| Insulation Resistance 500V DC    | >1000m Ohms                          |
| Current Rating                   | varies from 1A to 2 ~3A              |
| <i>Mechanical Specifications</i> |                                      |
| Individual Contact Force         | Standard 18g/contact, can be changed |
| Contact Life                     | 500,000 insertions                   |
| Heat Sink                        | Can be customized into the lid       |
| <i>Materials</i>                 |                                      |
| Insulator                        | Torlon 4203, Ultem 1000              |
| Contact                          | Spring probes                        |
| <i>Operating Temperature</i>     |                                      |
| Temperature Range                | Room temp to 150 degrees C           |

**Information Required for Ordering:**

- Package outline drawing needed, including pin counts, ball pitch & grid layout

**Sample Part #: S-BGA-16-292-A**

NOTE: Manufacturer's chip package drawing required with each order.

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