E-tec is now the leading BGA socket manufacturer.

These elastomer interposer sockets are available for any chip size and pitch. The standard version is the solderless socket style, which is attached with 2 or 4 screws to the PCB. SMT and thru-hole adapter sockets are also available with these elastomer interposers to allow using this high frequency interposer on PCB’s which have already been laid out for SMT or thru-hole sockets. The retainer can be delivered with a center opening for die access and the socket outline will be kept to a minimum and special clearances can be offered to avoid components on the PCB.

We aim to solve your requirements - your custom sets our standards!

Please note, we will always request the chip data to ensure we offer a compatible socket.

**Solderless Compression style**

*Standard Version*

(Twist Lock Type as example only – other locking systems available also)

**Elastomer Specifications:**

- **Flammability:** UL 94 V-0
- **Current rating:** 50mA/wire
- **Insulation resistance:** 1000 MΩ
- **Operating temperature:** -35°C to +100°C
- **Bandwidth:**
  - 0.50mm thick elastomer: -1dB at 10GHz
  - 1.00mm thick elastomer: -1dB at 6.5GHz
- **Compression forces**
  - 0.50mm thick elastomer: Solderball diameters
    - 0.50mm = 40 to 50gf@0.20mm
    - 0.60mm = 60 to 80gf@0.20mm
    - 0.75mm = 90 to 120gf@0.20mm
  - 1.00mm thick elastomer: Solderball diameters
    - 0.50mm = 40 to 50gf@0.20mm
    - 0.60mm = 50 to 70gf@0.20mm
    - 0.75mm = 90 to 120gf@0.20mm
- **Electrical data**
  - Contact resistance: < 50 mΩ
  - Current rating: 50 mA/wire
  - Capacitance: < 1 pF
  - Inductance: < 1 nH

**Mechanical data**

- **Dimensions & Tolerances**
  - **Elastomer life:** 1.000 cycles min.
  - **Width/Length**
    - min. = 3.00mm x 3.00mm (±0.50mm)
    - max. = 50.00mm x 50.00mm (±0.50mm)

**Elastomer Adapters (available on request)**

- **Gold plated pads**
  - Ø 0.70mm/.027” if pitch 1.27mm
  - Ø 0.60mm/.024” if pitch 1.00mm
  - Ø 0.50mm/.020” if pitch 0.80mm
  - Ø 0.45mm/.018” if pitch 0.75mm
  - Ø 0.40mm/.016” if pitch 0.65mm
  - Ø 0.30mm/.012” if pitch 0.50mm

**Solderless Compression style**

*Standard Version*

(Twist Lock Type as example only – other locking systems available also)

**Solderless Compression style**

*Standard Version*

(Twist Lock Type as example only – other locking systems available also)

**Special Elastomer Adapters (available on request)**

- **SMT Adapter Style**
  - (Quick Lock Type as example only – other locking systems available also)
- **Solder Adapters**
  - Please use a solder paste w/o any silver!
  - Solder paste: Please refer to our website www.e-tec.com

**How to order**

<table>
<thead>
<tr>
<th>Device Type</th>
<th>Locking Type</th>
<th>Nbr of contacts</th>
<th>Elastomer or Pitch</th>
<th>Grid Code</th>
<th>Config Code</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>B = BGA</td>
<td>W = Twist Lock</td>
<td>999</td>
<td>will be given by the factory after receipt of the chip datasheet</td>
<td></td>
<td></td>
<td>.55</td>
</tr>
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<td>L = LGA/QFN</td>
<td>B = Bayonet Lock</td>
<td>if LGA or QFN</td>
<td>Ball count</td>
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<td></td>
<td>.55</td>
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<tr>
<td></td>
<td>K = Knob Lock</td>
<td>if BGA</td>
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<td></td>
<td></td>
<td>.55</td>
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<tr>
<td></td>
<td>Q = Quick Lock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.55</td>
</tr>
<tr>
<td></td>
<td>C = Clamshell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.55</td>
</tr>
</tbody>
</table>

**Contact Type**

- **90** = Solderless Compression Style; 6.5 GHz performance
- **91** = Solderless Compression Style; 10 GHz performance

**Notes**

- Please provide chip data to ensure compatibility.
- PCB pad height: same or higher than solder mask.
- PCB thickness: 1.60mm std. (others: contact E-tec)

**Solderpaste**

- Please refer to our website www.e-tec.com