**BALL GRID ARRAYS**

**SERIES 540, 579, 582, 587, 599 • FOR 0.8mm GRID, 1mm GRID & .050” GRID • MALE PIN ADAPTERS AND FEMALE SOCKETS**

- BGA adapter/socket systems are a reliable way to make BGAs pluggable. They may also be used as a high density board-to-board interconnect.
- The BGA device for a 0.8mm or 1mm grid is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB), then either one can be plugged into a 9953 (0.8mm grid) or 9928 (1mm grid) surface mount socket.
- The BGA device for a .050” grid is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB), then either one can be plugged into a 8214 surface mount socket.
- Both socket and adapter have the same footprint as the BGA device.
- Insertion force is .4N per pin for standard pins 7929/9929, 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500.
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board.
- For Electrical, Mechanical and Environmental Data, see page 141 for details.

### Specifying Plating Codes

**SERIES 599...429**

- **BGA MOUNT TYPE #9929**
  - For 0.8mm & 1mm Grid Only

**SERIES 579...429**

- **PCB MOUNT TYPE #7929**
  - For 0.8mm & 1mm Grid Only

**SERIES 587...437**

- **BGA MOUNT TYPE #8737**
  - For .050” Grid Only

**SERIES 540...448**

- **EZ-IN BGA MOUNT TYPE #4048**
  - For .050” Grid Only

**SERIES 540...498**

- **STANDARD PCB MOUNT TYPE #4098**
  - For .050” Grid Only

**SERIES 540...454**

- **EZ-IN BGA MOUNT TYPE #4054**
  - For .050” Grid Only

**SERIES 599...453**

- **SURFACE MOUNT TYPE #9953**
  - For 0.8mm Grid Only

**SERIES 599...428**

- **SURFACE MOUNT TYPE #9928**
  - For 1mm Grid Only

**SERIES 582...414**

- **SURFACE MOUNT TYPE #8214**
  - For .050” Grid Only

Visit [www.mill-max.com/bga](http://www.mill-max.com/bga) to configure a formal part number.

<table>
<thead>
<tr>
<th>SPECIFY PLATING CODE XX</th>
<th>11</th>
<th>SPECIFY PLATING CODE XX</th>
<th>10</th>
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<tbody>
<tr>
<td>Sleeve (Pin)</td>
<td>10 μ&quot; Au</td>
<td>Pin Plating</td>
<td>10 μ&quot; Au</td>
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<tr>
<td>Contact (Clip)</td>
<td>10 μ&quot; Au</td>
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</tbody>
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RoHS-2 2011/65/EU

XX = Plating Code See Below

DISCONTINUED

PAGE 142 | IC SOCKETS/TO SOCKETS