

## Sn96.5/Ag3.0/Cu0.5 Solder Spheres for BGAs

### Product Highlights

Chip Quik® BGA solder spheres are manufactured from virgin materials to meet or exceed the requirements of building or repairing BGA packages. Chip Quik® BGA solder spheres also exceed both the IPC and MIL standards for purity levels and size tolerances. Nominal sizes are available from 8 to 30 mil.

### Product Specifications

| Part Number          | Alloy              | Melting Point         | Diameter               | Quantity (by weight) |
|----------------------|--------------------|-----------------------|------------------------|----------------------|
| SMD2016              | Sn96.5/Ag3.0/Cu0.5 | 217-220°C (423-428°F) | 0.008" (0.2mm)         | 250,000              |
| SMD2016-25000        |                    |                       |                        | 25,000               |
| SMD2020              |                    |                       | 0.010" (0.25mm)        | 250,000              |
| SMD2020-25000        |                    |                       |                        | 25,000               |
| SMD2024              |                    |                       | 0.012" (0.3mm)         | 250,000              |
| SMD2024-25000        |                    |                       |                        | 25,000               |
| SMD2028              |                    |                       | 0.014" (0.35mm)        | 250,000              |
| SMD2028-25000        |                    |                       |                        | 25,000               |
| SMD2032              |                    |                       | 0.016" (0.4mm)         | 250,000              |
| SMD2032-25000        |                    |                       |                        | 25,000               |
| SMD2036              |                    |                       | 0.018" (0.45mm)        | 250,000              |
| SMD2036-25000        |                    |                       |                        | 25,000               |
| SMD2040              |                    |                       | 0.020" (0.5mm)         | 250,000              |
| SMD2040-25000        |                    |                       |                        | 25,000               |
| SMD2050              |                    |                       | 0.024" (0.6mm)         | 250,000              |
| SMD2050-25000        |                    |                       |                        | 25,000               |
| SMD2055              |                    |                       | 0.025" (0.63mm)        | 250,000              |
| SMD2055-25000        |                    |                       |                        | 25,000               |
| SMD2060              |                    |                       | <b>0.030" (0.76mm)</b> | 250,000              |
| <b>SMD2060-25000</b> |                    |                       |                        | <b>25,000</b>        |

Shelf Life: >24 months

### Test Results

| Test J-STD-004 or other requirements as stated | Test Requirement                                   | Result   |
|--|--|--|
| Conflict Minerals Compliance                   | Electronic Industry Citizenship Coalition (EICC)   | Compliant  |
| REACH Compliance                               | Articles 33 and 67 of Regulation (EC) No 1907/2006 | Contains no substance >0.1% w/w that is listed as a SVHC or restricted for use in solder materials |

Conforms to the following Industry Standards:

J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders): Yes  
 RoHS 2 Directive 2011/65/EU: Yes

## Additional Alloys Available

| Part Number   | Alloy           | Melting Point | Diameter        | Quantity (by weight) |
|---------------|-----------------|---------------|-----------------|----------------------|
| SMD2140       | Sn63/Pb37       | 183°C (361°F) | 0.008" (0.2mm)  | 250,000              |
| SMD2140-25000 |                 |               |                 | 25,000               |
| SMD2150       |                 |               | 0.010" (0.25mm) | 250,000              |
| SMD2150-25000 |                 |               |                 | 25,000               |
| SMD2165       |                 |               | 0.012" (0.3mm)  | 250,000              |
| SMD2165-25000 |                 |               |                 | 25,000               |
| SMD2170       |                 |               | 0.014" (0.35mm) | 250,000              |
| SMD2170-25000 |                 |               |                 | 25,000               |
| SMD2180       |                 |               | 0.016" (0.4mm)  | 250,000              |
| SMD2180-25000 |                 |               |                 | 25,000               |
| SMD2185       |                 |               | 0.018" (0.45mm) | 250,000              |
| SMD2185-25000 |                 |               |                 | 25,000               |
| SMD2190       |                 |               | 0.020" (0.5mm)  | 250,000              |
| SMD2190-25000 |                 |               |                 | 25,000               |
| SMD2195       |                 |               | 0.022" (0.55mm) | 250,000              |
| SMD2195-25000 |                 |               |                 | 25,000               |
| SMD2200       |                 |               | 0.024" (0.6mm)  | 250,000              |
| SMD2200-25000 |                 |               |                 | 25,000               |
| SMD2205       |                 |               | 0.025" (0.63mm) | 250,000              |
| SMD2205-25000 |                 |               |                 | 25,000               |
| SMD2215       | 0.030" (0.76mm) | 250,000       |                 |                      |
| SMD2215-25000 |                 | 25,000        |                 |                      |