

Sn42/Bi57.6/Ag0.4 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 (0.2mm to 0.76mm).

Product Specifications

| Part Number | Alloy | Melting Point | Diameter | Quantity (by weight) |
|----------------------------------|-------------------|---------------|------------------------|----------------------|
| CQ-SS-SNBIAG-0.20MM-25000 | Sn42/Bi57.6/Ag0.4 | 138°C (281°F) | 0.008" (0.2mm) | 25,000 |
| CQ-SS-SNBIAG-0.25MM-25000 | | | 0.010" (0.25mm) | 25,000 |
| CQ-SS-SNBIAG-0.30MM-25000 | | | 0.012" (0.3mm) | 25,000 |
| CQ-SS-SNBIAG-0.35MM-25000 | | | 0.014" (0.35mm) | 25,000 |
| CQ-SS-SNBIAG-0.40MM-25000 | | | 0.016" (0.4mm) | 25,000 |
| CQ-SS-SNBIAG-0.45MM-25000 | | | 0.018" (0.45mm) | 25,000 |
| CQ-SS-SNBIAG-0.50MM-25000 | | | 0.020" (0.5mm) | 25,000 |
| CQ-SS-SNBIAG-0.60MM-25000 | | | 0.024" (0.6mm) | 25,000 |
| CQ-SS-SNBIAG-0.76MM-25000 | | | 0.030" (0.76mm) | 25,000 |

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 | | |
| CQ-SS-623602-0.65MM-25000 | Sn62/Pb36/Ag2 | 179°C (354°F) | 0.65mm | 25,000 |
| 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 | | | 0.030" (0.76mm) | 250,000 |
| SMD2060-25000 | | | | 25,000 |

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