

## 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
<b>CQ-SS-SNBIAG-0.25MM-25000</b>			<b>0.010" (0.25mm)</b>	<b>25,000</b>
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