



SG 9000 Series

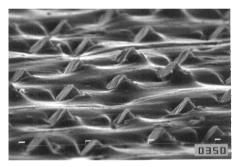
High Performance IC Sockets And Test Adaptors

Application Need & Solution



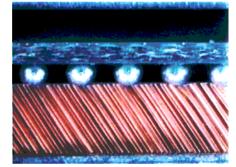


- •Low cost for small quantity
- •High bandwidth
- •Low inductance
- •Low contact resistance
- •Low cycle count



Protruded wire from elastomer

GHz BGA socket technology provide up to 10 GHz bandwidth in a small, cost effective ZIF socket for prototype and test applications. The GHz BGA socket is a simple mechanical socket based on elastomer contact technology.



BGA compressed on Elastomer



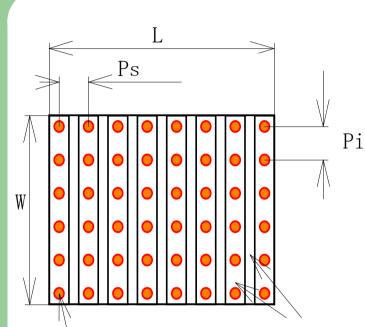
Wire marks on BGA

The elastomer consists of a fine pitch wire matrix which are embedded at a 63-degree angle in a soft insulating sheet of silicone rubber. The insulation resistance between connections with 500V DC is 1000 M Ω . The elastomer is ideal for high-current (50mA per filament) applications where a thin, high-density anisotropic connector is required. The gold-plated brass filaments protrude several microns from the top and bottom surfaces of the silicone sheet to penetrate heavily oxidized solder ball. The operating temperature range for the elastomer is -35° to 100° C.

Elastomer Classification



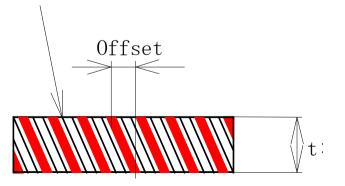






Insulation Silicone Rubber

Inclined Gold plated brass wire





SG-6000 series Ps, Pi = 0.1mm

L, W = 1mm to 50mmt = 0.75mmBGA, QFN, etc, >=0.75mm pitch

SG-7000 series

Ps, Pi = 0.05mmL, W = 1mm to 50mmt = 0.5 mmBGA, QFN, etc, >=0.3mm pitch

SG-8000 series

Ps, Pi = 0.1mmL, W = 1mm to 50mmt = 0.5 mmBGA, QFN, etc, >=0.75mm pitch

SG-9000 series

Ps, Pi = 0.075mmL, W = 1mm to 50mmt = 0.5 mmBGA, QFN, etc, >=0.4mm pitch

Socket Lid Options

· Optional fan available







· Low profile designs available

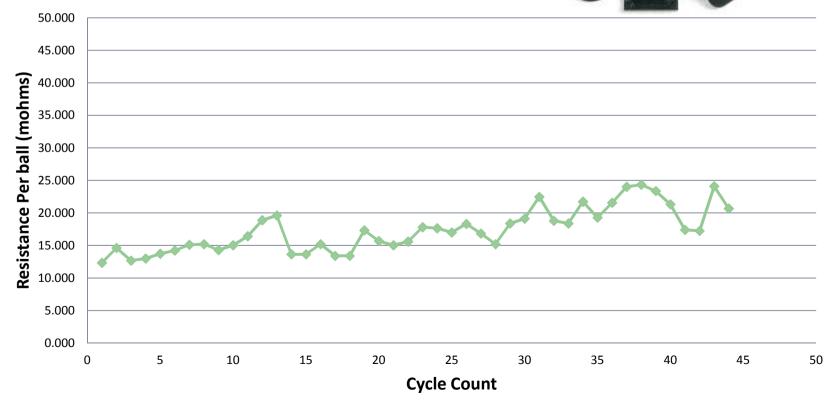
Easy access to chip
Thermal applications

SG 9000 Test Data

BGA1224, 31x24mm, 0.65mm pitch interstitial ball array

- 1. Socket assembled to daisy chain test PCB.
- 2. Daisy chain device simulator placed inside the socket.
- 3. Recommended torque applied.
- 4. Contact resistance measured using multi-meter.
- 5. Un-tighten the compression screw.









SG 9000 Test Data

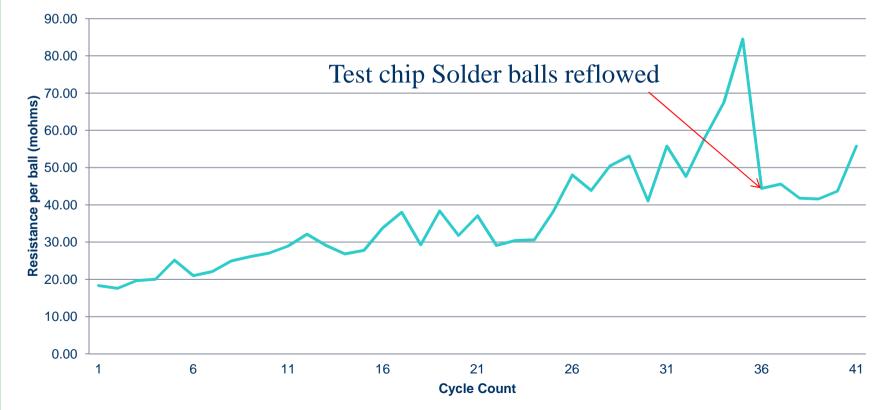
BGA529, 10x10mm, 0.4mm pitch 23x23 ball array

- 1. Socket assembled to daisy chain test PCB.
- 2. Daisy chain device simulator placed inside the socket.
- 3. Recommended torque applied.
- 4. Contact resistance measured using multi-meter.
- 5. Un-tighten the compression screw.
- 6. Step 3-5 repeated.





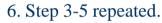




SG 9000 Test Data

BGA324, 10x10mm, 0.5mm pitch 18x18 ball array

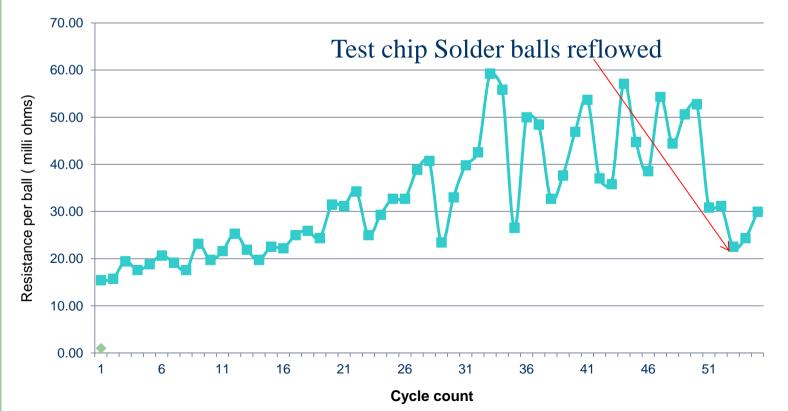
- 1. Socket assembled to daisy chain test PCB.
- 2. Daisy chain device simulator placed inside the socket.
- 3. Recommended torque applied.
- 4. Contact resistance measured using multi-meter.
- 5. Un-tighten the compression screw.











Thanks for your time and attention !!







Importation & Distribution Electronic Components

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