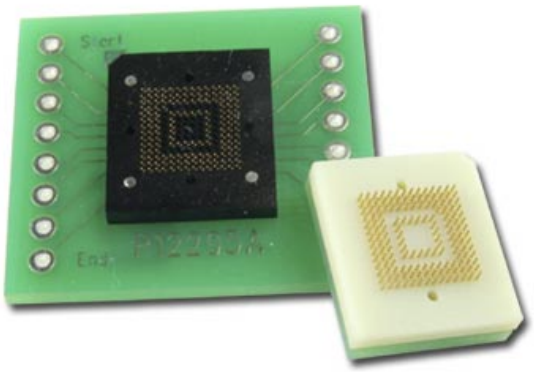
Micro Giga-snaP™ BGA SMT Adapters

Micro Giga-snaP™ line of BGA adapters provide the most reliable interconnect to BGA SMT pads. These patent pending adapters achieve 20 GHz bandwidth with 20mOhms contact resistance and 14g insertion force.

Standard Parts

- Micro Giga-snaP™ BGA 0.5mm male land socket (LSS)
- Micro Giga-snaP™ BGA 0.5mm female SMT feet (SFS)



0.5mm pitch Giga-snaP™ BGA socket adapter pair consists of patented female BGA sockets with etched pins assembled into high temperature substrate that matches the male pin adapter. The RoHS compliant BGA socket is soldered to a PCB using standard soldering methods without warping which results in reliable connection to PCB. Both BGA socket and adapter are constructed with high temperature polyimide material assuring match with target PCB's and preventing failures that occur due to CTE mismatch. BGA adapter, to which the user attaches a DUT, is plugged into the female BGA socket on the board, thereby chip is interconnected and the system is ready to go.

The Giga-snaP™ BGA socket adapters require very low insertion and extraction force for ease of operation. The electrical path of the Giga-snaP™ BGA socket adapters is a high priority performance issue with the physical length from the top connection point on the male adapter to the solder ball on the female socket is 3 mm. This is the shortest connection length by far for interconnect pin sockets, therefore providing better transmission of high frequency signals. The Giga-snaP™ BGA socket adapter line is available in many different pin counts/pitches and customs can be delivered in days.

Typical specifications for the 0.5mm SFS/LSS contact technology include:

- 20GHz bandwidth @-1dB
- Contact resistance under 20mOhms
- Self inductance under 0.79nH
- Capacitance under 0.088pF
- Operating temperature range -55C to +160C
- Insertion/Extraction life over 100 cycles
- Current rating at ambient is 3 Amps per pin

Technical Documents: Micro Giga-snaP™ Presentation, Micro Giga-snaP™ RF data, Micro Giga-snaP™ DC data, Micro Giga-snaP™ User instructions.

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