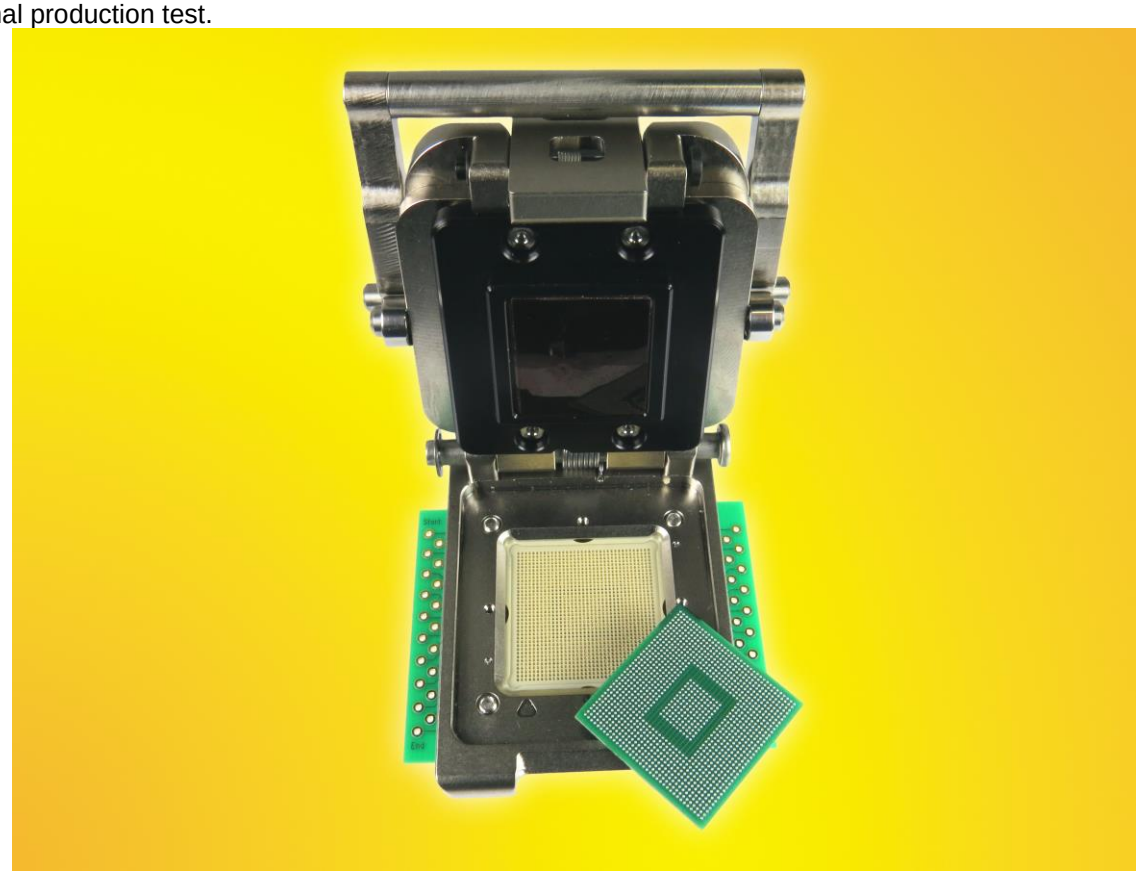
Ironwood ELECTRONICS

RoHS High Performance Sockets & Adapters

Clamshell Production Test Socket for ASE's FC BGA1164

Socket and Test your 25x25mm BGA device using extreme temperature socket

EAGAN, MN - May, 2017 - Ironwood Electronics recently introduced a new Stamped spring pin socket addressing high performance requirements for testing BGA1164 - CBT-BGA-7042. The contactor is a stamped spring pin with 31 gram actuation force per ball and cycle life of 125,000 insertions. The self inductance of the contactor is 0.88 nH, insertion loss < 1 dB at 15.7 GHz and capacitance 0.097pF. The current capacity of each contactor is 4 amps at 40C temperature rise. Socket temperature range is -55C to +180C. Socket features a lever actuated clamshell lid design for ease of chip replacement in production environment. It also has an integrated compression plate for vertical force actuation without distorting device position. The specific configuration of the package to be tested in the CBT-BGA-7042 is a BGA, 25x25mm, 0.65mm pitch 36x36 array with 1164 balls. The socket is mounted using supplied hardware on the target PCB with no soldering, and uses the smallest footprint in the industry. The smallest footprint allows inductors, resistors and decoupling capacitors to be placed very close to the device for impedance tuning. To use, place BGA device into the socket and close the lid by snapping to the latch. Vertical force is applied by turning the lever from open to close position. Socket features a heat sink with fan for 10 watt power dissipation and it can be customized for higher power dissipation by upgrading to higher flow fan or larger heat sink. This socket can be used for quick device screening, device characterization at extreme temperatures as well as final production test.



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