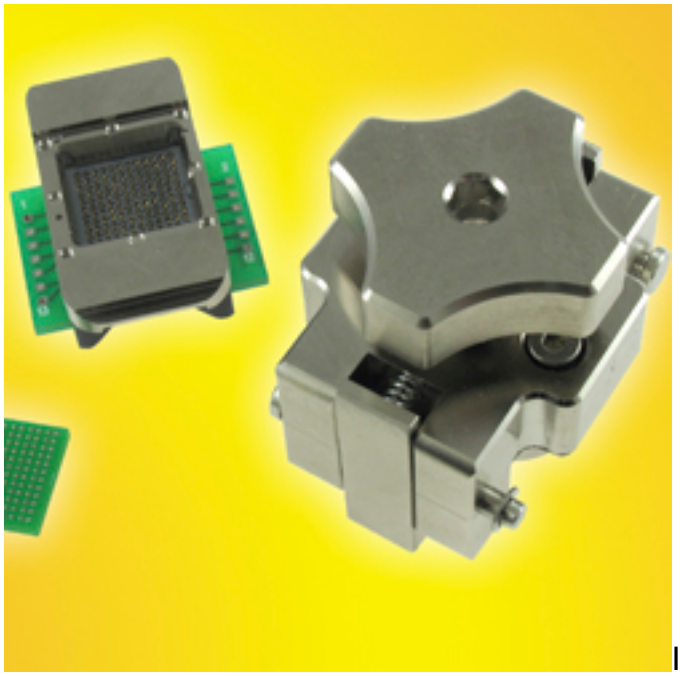
Stamped spring pin features 19 gram actuation force per ball



Ironwood Electronics recently introduced a new BGA socket addressing high performance requirements for BGA devices - CBT-BGA-6014. The contactor is a stamped spring pin with 19 gram actuation force per ball and cycle life of 500,000 insertions. Low force eliminates ball sticking issues due to temperature testing. The self inductance of the contactor is 0.93 nH, insertion loss < 1 dB at 23.2 GHz and contact resistance is <16mOhms. The current capacity of each contactor is 8 amps at 80C temperature rise. Socket temperature range is -55C to +180C. Socket also features a floating guide for precise ball to pin alignment. The specific configuration of the package to be tested in the CBT-BGA-6014 is a BGA, 13x13mm, 1mm pitch, 144 position, 12x12 ball array. The socket is mounted using supplied hardware on the target PCB with no soldering, and uses smallest footprint for nearby passive components. To use, place the BGA device into the socket base and close the socket lid assembly on to the base using the double latch. This socket utilizes compression screw integrated with compression plate mechanism for precise actuation of varying chip thickness. This socket can be used for hand test and temperature characterization as well as debugging application in system development.

Pricing for the CBT-BGA-6014 is $689 at qty 1 with reduced pricing available depending on quantity required.

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