Elastomer Socket Offers Superior Electrical Performance

Ironwood Electronics has recently introduced a new high performance WCSP socket for 0.5-mm pitch 25 pin WCSP. The SG-BGA-7188 socket is designed for 2.75 x 2.75-mm package size and operates at bandwidths up to 10 GHz with less than 1 dB of insertion loss. The contact resistance is typically 20 milliohms per I/O. The socket connects all pins with 10 GHz bandwidth on all connections. The socket is mounted using supplied hardware on the target PCB with no soldering, and uses the smallest footprint in the industry. The socket also incorporates a new quick insertion method using an integrated compression plate to the socket lid so that ICs can be changed out quickly. The application of the socket is to verify the function of IC in a development system specifically power management unit in an embedded camera module. The socket also features replaceable IC guide that allows testing of other package sizes with 0.5-mm pitch, such as 2.25 x 2.25 mm, 2.25 x 2.75 mm, and 1.75 x 2.25 mm. The SG-BGA-7188 sockets are constructed with high performance and low inductance gold plated embedded wire on elastomer as interconnect material between device and PCB. The temperature range is -35 to 100°C. The pin self inductance is 0.15 nH and mutual inductance of 0.025 nH. Capacitance to ground is 0.01 pF. Current capacity is 2 amps per pin.

Source URL (retrieved on *05/25/2013 - 10:56am*):
http://www.mdtmag.com/product-releases/2010/10/elastomer-socket-offers-superior-electrical-performance?qt-recent_content=0