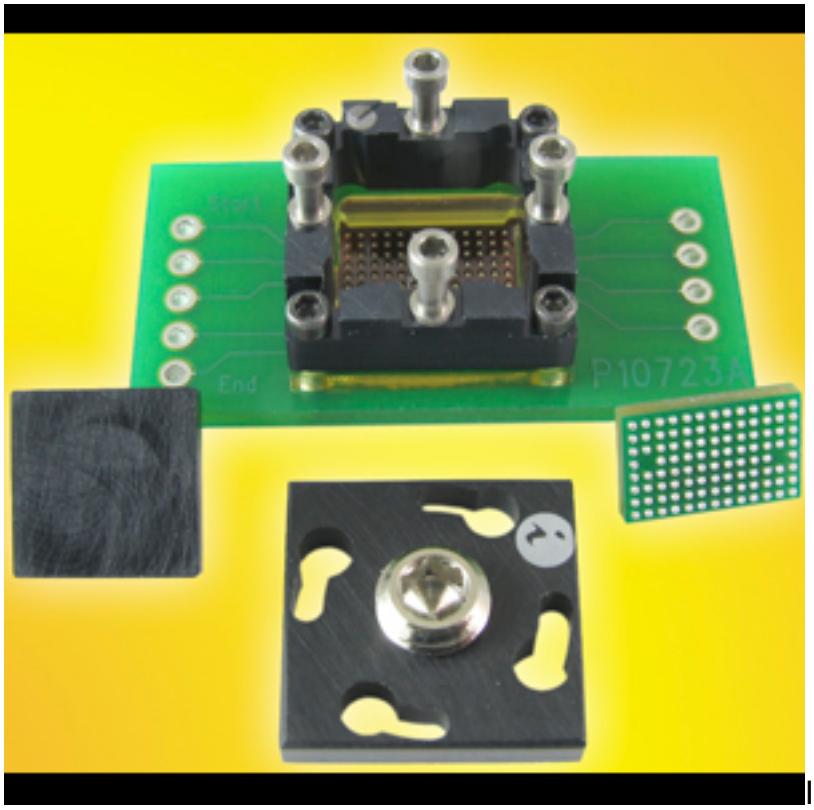
# Bandwidth socket features less than 1dB of insertion loss




Ironwood Electronics has recently introduced a new high performance BGA socket product line using unique elastomer capable of high speed, low inductance, high endurance and wide temperature applications. The SM-BGA-9007 socket is designed for 9.75x13 mm package size and operates at bandwidths up to 40 GHz with less than 1dB of insertion loss. The socket is also designed to dissipate few watts with compression screw and can be customized up to 100 watts with modified fin design on top of the screw and adding axial flow fan. The contact resistance is typically 15 milliohms per pin. The socket connects all pins with 40 GHz bandwidth on all connections. The socket is mounted on the target PCB with no soldering, and uses industry's smallest footprint (only 2.5mm more on each side). The socket is constructed with shoulder screw and swivel lid which incorporates a quick insertion method so that IC's can be changed out quickly.

The SM-BGA-9007 socket is constructed with high performance and low inductance elastomer contactor. The temperature range is -55 C to +150 C. The pin self inductance is 0.10 nH and mutual inductance of 0.007 nH. Capacitance to ground is 0.069 pF. Current capacity is 4 amps per pin. Works with IC's such as Hittite Microwave's HMC5850, 9.75x13mm with 8x13 array and 0.75mm pitch.

Pricing for the SM-BGA-9007 is $1245 at qty 1; with reduced pricing available depending on quantity required.

For a high resolution photo see: http://www.ironwoodelectronics.com [1]

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[1] http://www.ironwoodelectronics.com