



### 30 GHz Bandwidth Socket for BGA1086 Package

***Socket your BGA package using elastomer socket with superior electrical performance***

EAGAN, MN - June, 2016 - Ironwood Electronics has recently introduced a new high performance elastomer socket for 0.65mm pitch BGA package. The SG-BGA-9002 socket is designed for a 25mmx25mm package size and operates at bandwidths up to 30 GHz with less than 1dB of insertion loss (GSSG configuration). The contact resistance is typically 20 milliohms per pin. Network analyzer reflection measurements for the G-S-S-G case were taken with all except the pins under consideration terminated into 50 Ohms. The socket is mounted using supplied hardware on the target PCB with no soldering, and uses 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. The socket also incorporates a simple hardware installation method so that IC's can be changed out quickly. The socket is designed for 20W power dissipation using heat sink compression screw with axial flow DC fan.



The SG-BGA-9002 sockets are constructed with high performance and low inductance elastomer contactor. The temperature range is -35C to +100 C. The pin self inductance is 0.118 nH and mutual inductance of 0.025 nH. Capacitance to ground is 0.229 pF and mutual capacitance is 0.025pF. Current capacity is 2 amps per pin.

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