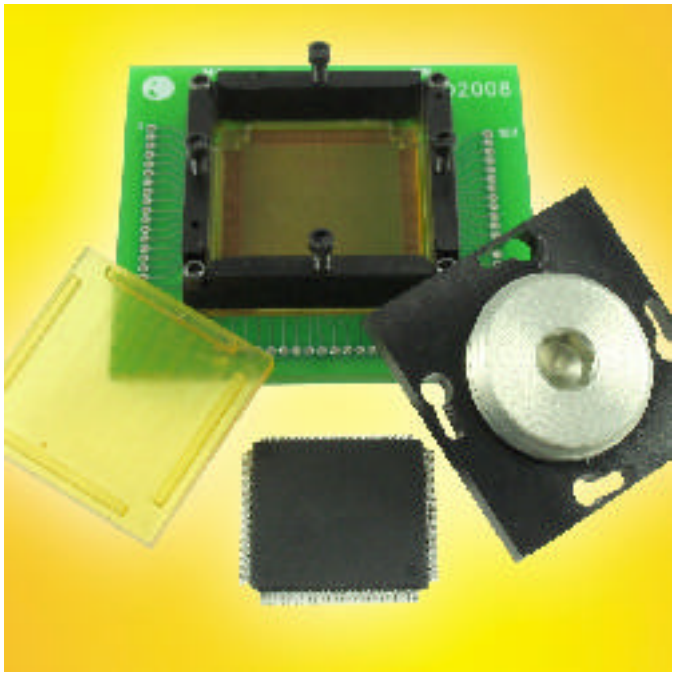
Elastomer Socket for ICs Uses Small Footprint



Ironwood Electronics offers a high performance QFP socket for 0.4-mm pitch 144 pin QFP. The SG-QFE-7007 socket is designed for 16- x 16- x 1.2-mm package size with 18- x 18-mm lead tip to tip 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 smallest footprint allows inductors, resistors, and decoupling capacitors to be placed very close to the device for impedance tuning. The socket also incorporates a swivel lid with compression screw, so that ICs can be changed out quickly. The socket features a floating compression plate to force down the QFP leads onto the elastomer. There is also a hard stop feature built into the compression mechanism.
The SG-QFE-7007 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.

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