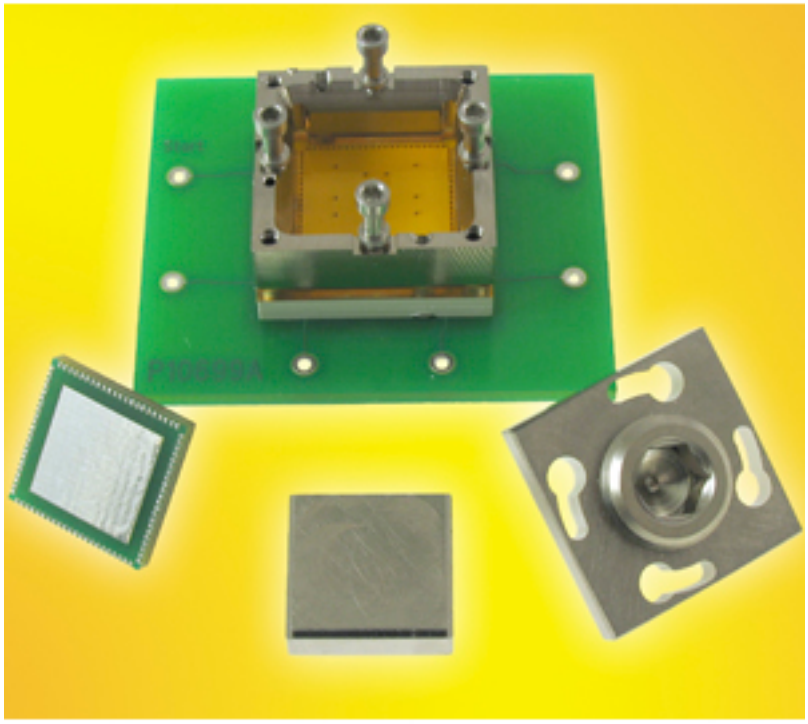
Stamped spring pin includes cycle life of 500,000 insertions



Ironwood Electronics recently introduced a new QFN socket addressing high performance requirements for 0.5mm pitch devices - SBT-QFN-4015. The contactor is a stamped spring pin with 31 gram actuation force per pin and cycle life of 500,000 insertions. The self inductance of the contactor is 0.88 nH, insertion loss of < 1 dB at 15.7 GHz and capacitance 0.097pF. The current capacity of each contactor is 4 amps. Socket temperature range is -55C to +180C. Socket also features an IC guide for precise QFN edge alignment. The specific configuration of the package to be tested in the SBT-QFN-4015 is QFN, 12x12mm body size and 0.5mm pitch. To use, drop IC into the socket, place floating compression plate, swivel the lid, and apply down force using compression screw. This socket can be used for hand test and quick turn custom burn-in applications with the most stringent requirements.

These socket product lines have been designed to the JEDEC STD. MO-220 and are available for all standard configurations. Custom designs are also available. SBT-QFN-4015 socket features a unique contact design with outside spring and flat stamped plungers that provide a robust solution for Burn-in & Test applications including excellent electrical signal integrity to meet the requirements of today's demanding analog, digital, RF, Bluetooth and telecom applications. 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 swivel socket lid incorporates a quick installation method using shoulder

screw so that IC's can be changed out quickly.

Pricing for the SBT-QFN-4015 is $515 at qty 1 with reduced pricing available depending on quantity required.

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

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http://www.ecnmag.com/product-releases/2012/05/stamped-spring-pin-includes-cycle-life-500000-insertions

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