Ironwood ELECTRONICS

Production test Socket for DFN6 Electronic Filter

Socket and Test your 3.1x3.45mm DFN6 device using extreme temperature socket

EAGAN, MN - November, 2013 - Ironwood Electronics recently introduced a new Stamped spring pin socket addressing high performance requirements for testing electronic filters 6 lead DFN - CBT-QFN-7033. Electronic filters are analog circuits which perform signal processing functions, specifically to remove unwanted frequency components from the signal, to enhance wanted ones, or both. To test electronic filters, a high performance contact is needed. The contactor used in CBT-QFN-7033 socket is a stamped spring pin with 34 gram actuation force per ball and cycle life of 10,000+ insertions. The self inductance of the contactor is 0.9 nH, insertion loss < 1 dB at 9.1 GHz and capacitance 0.03pF. The current capacity of each contactor is 2.2 amps. Socket temperature range is -55C to +155C. Socket also features a clamshell lid for ease of operation and it accommodates two DFN devices. It also has a wave spring with swivel compression plate for vertical force without distorting device position. The specific configuration of the package to be tested in the CBT-QFN-7033 is a DFN, 3.1x3.45mm, 1.28mm pitch, 6 positions with two device cavities for simultaneous testing. 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. To use, place DFN device into the socket and close the lid by snapping to the latch. This socket can be used for quick device screening, device characterization at extreme temperatures as well as final production test.

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