



Amkor FusionQuad™ Test Contactor:

Amkor Technology is now offering the FusionQuad™ Test Contactor

FusionQuad™:

Amkor's FusionQuad™ represents a breakthrough in leadframe-based plastic packaging through the effective integration of ExposedPad™ QFP and MLF® technologies. FusionQuad™ is based upon the addition of exposed bottom lands within a standard VQFP package format. The novel integration of bottom lands provides a cost-effective platform for increased lead count in a small form factor. FusionQuad™ not only extends the I/O range of classic leadframe packaging to nearly 400 unique pins, it also delivers an approximate 50% reduction in package size for a given leadcount. Additionally, FusionQuad™ provides excellent RF electrical performance characteristics with short signal paths to the bottom lands and high power dissipation capability with the solderable exposed die attach paddle.

System architects, IC designers and packaging engineers will find that FusionQuad™ offers a unique blend of excellent electrical and thermal performance in a miniaturized cost-effective leadframe plastic package. Applications requiring increased data rates or RF communications will benefit from the low insertion loss up to 10 Gigahertz when utilizing the bottom lands for high speed signals. The 0.8mm package thickness allows FusionQuad™ to be applied to end products requiring thin profiles such as mobile hard disk drives, notebook computers and other consumer electronics. The unique footprint of FusionQuad™ allows for the use of low cost printed circuit boards in the end application due to the space available for coarse routing vias between the bottom lands and the outer peripheral leads.

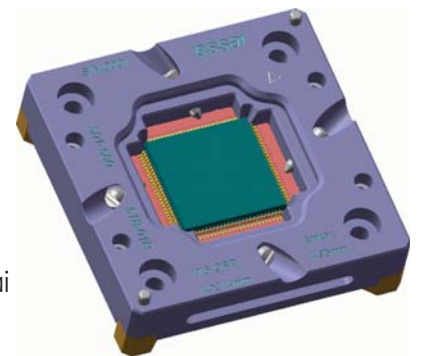
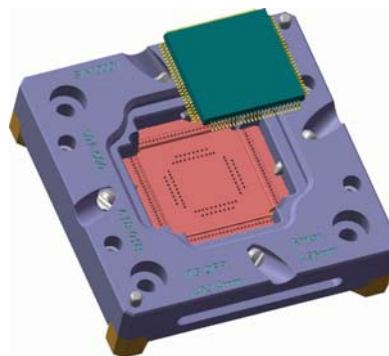
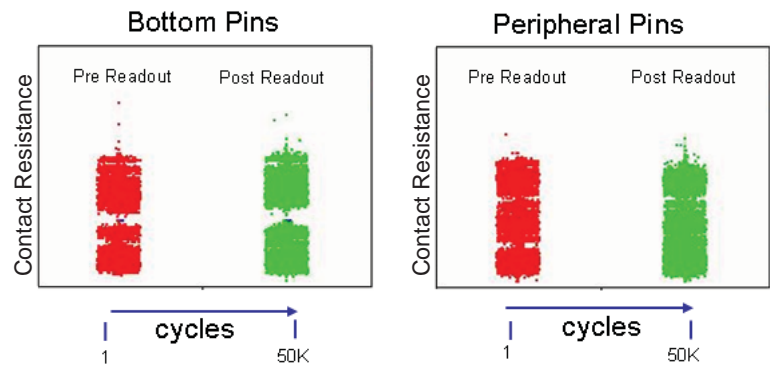
Applications:

Amkor's FusionQuad™ provides an ideal package format for most IC semiconductor technologies including advanced mixed signal SoCs, motor drivers, MCUs, ASICs, DSPs and a variety of others.

FusionQuad™ is particularly well suited for applications requiring superior electrical or thermal performance in a cost constrained environment including hard disk drives, laptop PCs, Ethernet communication, digital television, data conversion and many others.

FusionQuad™ Test Contactor

Test Hardware List:	<ul style="list-style-type: none"> • Seiko-Epson NS6040 handler kit from Antares • FusionQuad™ contactor from Essai
Qualification Summary:	<ul style="list-style-type: none"> • Over 50K cycles on contactor with 630 FusionQuad™ units. • Pre and Post Lead Scan of all units showed no bent or damaged leads • No significant change in Contact Resistance (CRES) after cycling • Contactor and handler kit successfully qualified for HVM use



Photos courtesy of Essai
www.essai.com/essai

Amkor has fully qualified test contactor and handler kit capabilities today!

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www.amkor.com



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