



CUSTOMER ADVISORY FLEX 10K ADDITIONAL SOURCE OF SUPPLY

Altera has improved the thermally enhanced QFP package used for the FLEX 10K products to meet a Level 3 moisture rating as specified in JEDEC STD-020 and IPC-SM-786A. This upgrade will take effect in Q2 1998 for all FLEX 10K devices. The dry-pack label for these products will indicate that the product meets the Level 3 moisture rating and can be removed from the moisture barrier bag for 168 hours before surface mounting is required.

This upgrade is based upon the use of MP-8000, an improved molding compound that is already in production for the FLEX 6000 family. The upgrade also includes minor modifications to the internal heatslug construction. There is no change in form, fit, or function of the affected products.

If you have any questions about these enhancements, please contact Paul Weis, Customer Quality Manager, at (408) 544-7563.

Altera Product Moisture Classification

Package (Lead Count)	Products*	Moisture Class / Floor Life **
TQFP (32, 44, 100, 144)	All	Level 3 / 168 hours
PQFP (100, 160, 208, 240)	All	Level 3 / 168 hours
RQFP (208, 240, 304)	All MAX 7000, FLEX 8000 & MAX 9000	Level 3 / 168 hours
	All FLEX 10K	Level 5 / 24 hours currently; Level 3 / 168 hours by end of Q2 1998
PLCC (84)	FLEX 8000*, All MAX 9000, and All FLEX 10K	Level 3 / 168 hours
BGA (225, 256, 356)	All	Level 3 / 168 hours

* Surface-mount packages not listed in this table meet Level 1 moisture classification and are not shipped in dry-pack bags. EPF8282/A in 84 PLCC package also meets Level 1.

** Per J-STD-020. Floor life specified is in addition to the Manufacturer's Exposure Time (MET).

Please follow the guidelines in *Application Note 81 (Reflow Soldering Guidelines for Surface-Mount Devices)*, available in the 1998 *Data Book*.