



July 18, 2006

PCN Number: 0612

PCN Change Level: Major

Subject: Change from Ink Marking to Laser Marking for All Plastic Packaging

Dear Purchasing,

This notice is to inform you that Actel will be changing from ink to laser marking for all plastic devices. The devices and packages that are affected are in Table 1. This change affects all speed and temperature combinations.

Table 1: Affected Devices

Device	Package	RoHS Compliant
A1010B	PL44	✓
A1010B/A10V10B	PL68	✓
A1010B	PQ100	✓
A1010B/A10V10B	VQ80	✓
A1020B	PL44	✓
A1020B/A10V20B	PL68	✓
A1020B/A10V20B	PL84	✓
A1020B	PQ100	✓
A1020B	VQ80	✓
A1225A	PL84	✓
A1225A	PQ100	✓
A1225XL/A1225XLV	PL84	✓
A1225XL	PQ100	✓
A1225XL/A1225XLV	VQ100	✓
A1240A	PL84	✓
A1240A	PQ144	✓
A1240A	TQ176	✓
A1240XL/A1240XLV	PL84	✓
A1240XL/A1240XLV	TQ176	✓
A1240XL	PQ100	✓
A1240XL	PQ144	✓
A1280A	PL84	✓
A1280A	PQ160	✓
A1280XL/A1280XLV	PL84	✓



Table 1: Affected Devices

Device	Package	RoHS Compliant
A1280XL/A1280XLV	TQ176	✓
A1280XL/A1280XLV	PQ160	✓
A1280XL	PQ208	✓
A1415A/A14V15A	PL84	✓
A1415A/A14V15A	VQ100	✓
A1415A	PQ100	✓
A1425A/A14V25A	PL84	✓
A1425A/A14V25A	VQ100	✓
A1425A	PQ100	✓
A1425A/A14V25A	PQ160	✓
A1440A/A14V40A	PL84	✓
A1440A/A14V40A	PQ160	✓
A1440A/A14V40A	VQ100	✓
A1440A/A14V40A	TQ176	✓
A1460A/A14V60A	PQ160	✓
A1460A/A14V60A	PQ208	✓
A1460A/A14V60A	TQ176	✓
A14100A/A14V100A	BG313	
A14100A/A14V100A	RQ208	
A32200DX/A32200DXV	PQ208	✓
A40MX02	PL44	✓
A40MX02	PL68	✓
A40MX02	PQ100	✓
A40MX02	VQ80	✓
A40MX04	PL44	✓
A40MX04	PL68	✓
A40MX04	PL84	✓
A40MX04	PQ100	✓
A40MX04	VQ80	✓
A42MX09	PL84	✓
A42MX09	PQ100	✓
A42MX09	PQ160	✓
A42MX09	TQ176	✓
A42MX09	VQ100	✓
A42MX16	PL84	✓
A42MX16	PQ100	✓
A42MX16	PQ160	✓



Table 1: Affected Devices

Device	Package	RoHS Compliant
A42MX16	PQ208	✓
A42MX16	TQ176	✓
A42MX16	VQ100	✓
A42MX24	PL84	✓
A42MX24	PQ160	✓
A42MX24	PQ208	✓
A42MX24	TQ176	✓
A42MX36	PQ208	✓
A42MX36	PQ240	✓
A42MX36	BG272	✓
A54SX08	FG144	✓
A54SX08	PL84	✓
A54SX08	PQ208	✓
A54SX08	TQ144	✓
A54SX08	TQ176	✓
A54SX08	VQ100	✓
A54SX08A	FG144	✓
A54SX08A	PQ208	✓
A54SX08A	TQ100	✓
A54SX08A	TQ144	✓
A54SX16	PQ208	✓
A54SX16	TQ176	✓
A54SX16	VQ100	✓
A54SX16A	FG144	✓
A54SX16A	FG256	✓
A54SX16A	PQ208	✓
A54SX16A	TQ100	✓
A54SX16A	TQ144	✓
A54SX16P	PQ208	✓
A54SX16P	TQ144	✓
A54SX16P	TQ176	✓
A54SX16P	VQ100	✓
A54SX32	PQ208	✓
A54SX32	TQ144	✓
A54SX32	TQ176	✓
A54SX32	BG313	✓
A54SX32	BG329	✓



Table 1: Affected Devices

Device	Package	RoHS Compliant
A54SX32A	BG329	✓
A54SX32A	FG144	✓
A54SX32A	FG256	✓
A54SX32A	FG484	✓
A54SX32A	PQ208	✓
A54SX32A	TQ100	✓
A54SX32A	TQ144	✓
A54SX32A	TQ176	✓
A54SX72A	FG256	✓
A54SX72A	FG484	✓
A54SX72A	PQ208	✓
eX64	CS49	✓
eX64	CS128	✓
eX64	TQ64	✓
eX64	TQ100	✓
eX128	CS49	✓
eX128	CS128	✓
eX128	TQ64	✓
eX128	TQ100	✓
eX256	CS128	✓
eX256	CS180	✓
eX256	TQ100	✓
AX125	CS180	✓
AX125	FG256	✓
AX125	FG324	✓
AX250	FG256	✓
AX250	FG484	✓
AX250	PQ208	✓
AX500	FG484	✓
AX500	FG676	✓
AX500	PQ208	✓
AX1000	FG484	✓
AX1000	FG676	✓
AX1000	BG729	✓
AX2000	FG1152	✓
APA075	FG144	✓
APA075	PQ208	✓



Table 1: Affected Devices

Device	Package	RoHS Compliant
A500K050	BG272	✓
A500K050	FG144	✓
A500K130	BG272	✓
A500K130	BG456	✓
A500K130	FG245	✓
A500K130	PQ208	✓
A500K180	BG456	✓
A500K180	FG256	✓
A500K180	PQ208	✓
A500K270	BG456	✓
A500K270	FG256	✓
A500K270	FG676	✓
A500K270	PQ208	✓
APA075	TQ100	✓
APA075	TQ144	✓
APA150	BG456	✓
APA150	FG144	✓
APA150	FG256	✓
APA150	TQ100	✓
APA150	PQ208	✓
APA300	BG456	✓
APA300	FG144	✓
APA300	FG256	✓
APA300	PQ208	✓
APA450	BG456	✓
APA450	FG144	✓
APA450	FG484	✓
APA450	PQ208	✓
APA600	BG456	✓
APA600	FG256	✓
APA600	FG676	✓
APA600	PQ208	✓
APA750	BG456	✓
APA750	FG676	✓
APA750	PQ208	✓
APA1000	BG456	✓
APA1000	FG1152	✓

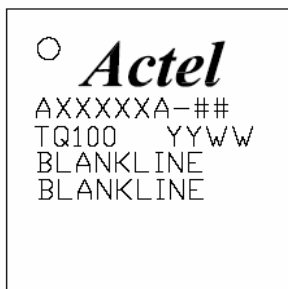


Table 1: Affected Devices

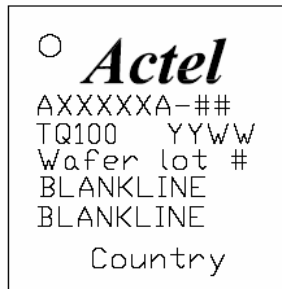
Device	Package	RoHS Compliant
APA1000	PQ208	✓
A3P060	FG144	✓
A3P060	QN132	✓
A3P060	TQ144	✓
A3P060	VQ100	✓
A3P125	FG144	✓
A3P125	PQ208	✓
A3P125	QN132	✓
A3P125	TQ144	✓
A3P125	VQ100	✓
A3P250/M7A3P250	FG144	✓
A3P250	FG256	✓
A3P250/M7A3P250	PQ208	✓
A3P250	QN132	✓
A3P250/M7A3P250	VQ100	✓
A3P400/M7A3P400	FG144	✓
A3P400/M7A3P400	FG256	✓
A3P400/M7A3P400	FG484	✓
A3P400/M7A3P400	PQ208	✓
A3P1000/M7A3P1000	FG144	✓
A3P1000/M7A3P1000	FG256	✓
A3P1000/M7A3P1000	FG484	✓
A3P1000/M7A3P1000	PQ208	✓
A3PE600/M7A3PE600	FG256	✓
A3PE600/M7A3PE600	FG484	✓
A3PE600/M7A3PE600	PQ208	✓
AFS600	FG256	✓
AFS600	PQ208	✓
AFS600	FG484	✓



For the plastic leaded packages (PLCC, PQFP, VQFP, TQFP) this change in marking will allow Actel to mark the wafer lot number and country of origin on the top of the device. The marking will be as follows:



Original



New

Actel may begin shipping units with this marking change 90 days after the date of this letter. Shipments could include units with both ink and laser markings.

For questions, please contact Actel's Corporate Application hotline at tech@actel.com.

Regards,

Actel Corporation