

January 31, 1995

Dear Customer:

Altera will be adding the EPM7032 to the Intel products manufactured at ASE Penang. ASE has been selected because of its excellent reliability and test performance, their ability to accommodate Altera's high volume capacity requirements, and the organization's ability to flexibly test devices assembled on site.

Included for your review is reliability data for the EPM7032 assembled in ASE Penang.

### **EPM7032 PLCC Reliability Data (ASE)**

<b>Reliability Test</b>	<b>Sample Size</b>	<b>Test Duration</b>	<b>Failures</b>
85°C / 85% THB	45	1000 Hours	0
Autoclave	45	500 Hours	0
H.A.S.T.	45	192 Hours	0
Life Test 125°C	45	1000 Hours	0
Temperature Cycle C	45	1000 Cycles	0

Altera will be running additional reliability and test qualifications (including tester correlation) as additional products are transferred to ASE in 1995. The current schedule includes, but is not limited to, the following products:

### Product Transition Plan

Product	Pin/Package	ASE Assembly	ASE Test
7032	44 LC	March '95	May '95
7064	44 LC	March '95	May '95
	68 LC	May '95	July '95
	84 LC	May '95	July '95
7096	68 LC	May '95	August '95
	84 LC	May '95	August '95
7128/E	84 LC	May '95	June '95

Altera will not be providing additional PCN's for future product transfers to ASE Penang. However, ASE tested products will be marked with a 'B' preceding the topside date code.

Should you need additional information or assistance, please contact your local Altera sales representative or Prakash Vaswani, Altera's Quality Assurance Manager, at (408) 894-7417.

Sincerely,

John P. Latimer  
Quality Systems Engineer