



Cypress Semiconductor Corporation, 198 Champion Court, San Jose, CA 95134. Tel: (408) 943-2600

PRODUCT CHANGE NOTIFICATION

PCN: PCN145352

Date: December 15, 2014

Subject: Standardization of Moisture Sensitive Level (MSL) Classification for F-RAM Products

To: PCN ADMIN
CYPRESS
pcn_admin@cypress.com

Change Type: Minor

Description of Change:

Cypress is standardizing the Moisture Sensitive Level (MSL) of F-RAM products to be consistent with all other Cypress products. This standardization requires MSL 1 and MSL 2 F-RAM products to be converted to MSL 3. There will be no material, process or part number revisions associated with this change, other than the implementation of dry pack prior to the shipment.

Benefit of Change:

This change will standardize F-RAM MSL rating to be in-line with other Cypress products.

Affected Part Numbers: 86

Affected Parts: Refer to attached 'Affected part list' file.

Qualification Status:

The Qualification Test Plan (QTP) reports have been updated and are listed in the table below. The QTP reports can be found as attachments to this notification or by visiting www.cypress.com and typing the QTP number into the keyword search window.

Product Family Description	QTP Number
Processor Companion with Serial F-RAM	124908 130101
512Kb and 1Mb Serial F-RAM	124909
4Kb, 16Kb and 64Kb Serial F-RAM AEC-Q100 Grade 1	130105
4Kb, 16Kb, 64Kb and 256Kb Serial F-RAM	130104
64Kb and 256Kb Parallel F-RAM	130804 131102

Approximate Implementation Date:

Effective 90 days after this notification, Cypress will begin to transition all F-RAM products to MSL 3 classifications.

Anticipated Impact:

MSL 3 devices have a 12 month shelf life at <40 C and <90% relative humidity (RH) from the bag seal date. Additional information, such as mounting and baking requirements, can be found on the MSL 3 label in the attached document.

Products manufactured with MSL 3 are completely compatible with existing product from a functional, parametric and quality performance perspective.

Cypress also recommends that customers take this opportunity to review these changes against current application notes, system design considerations and customer environment conditions to assess impact (if any) to their application.

Method of Identification:

Cypress maintains traceability of our products to the wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

No response is required.

For additional information regarding this change, contact your local sales representative or contact the PCN Administrator at pcn_adm@cypress.com.

Sincerely,

Cypress PCN Administration

Item	Marketing Part Number	QTP Number
1	FM33256B-G	124908
2	FM33256B-GTR	124908
3	FM24V05-G	124909
4	FM24V05-GTR	124909
5	FM24V10-G	124909
6	FM24V10-GTR	124909
7	FM24VN10-G	124909
8	FM24VN10-GTR	124909
9	FM25V05-G	124909
10	FM25V05-GTR	124909
11	FM25V10-G	124909
12	FM25V10-GTR	124909
13	FM25VN10-G	124909
14	FM25VN10-GTR	124909
15	FM31256-G	130101
16	FM31256-GTR	130101
17	FM31276-G	130101
18	FM31276-GTR	130101
19	FM31278-G	130101
20	FM31278-GTR	130101
21	FM3164-G	130101
22	FM3164-GTR	130101
23	FM31L276-G	130101
24	FM31L276-GTR	130101
25	FM31L278-G	130101
26	FM31L278-GTR	130101
27	FM24C04B-G	130104
28	FM24C04B-GTR	130104
29	FM24C16B-G	130104
30	FM24C16B-GTR	130104
31	FM24C64B-G	130104
32	FM24C64B-GTR	130104
33	FM24CL04B-G	130104
34	FM24CL04B-GTR	130104
35	FM24CL16B-DG	130104
36	FM24CL16B-DGTR	130104
37	FM24CL16B-G	130104
38	FM24CL16B-GTR	130104
39	FM24CL64B-DG	130104
40	FM24CL64B-DGTR	130104
41	FM24CL64B-G	130104
42	FM24CL64B-GTR	130104
43	FM24W256-G	130104
44	FM24W256-GTR	130104
45	FM25040B-G	130104
46	FM25040B-GTR	130104

47	FM25640B-G	130104
48	FM25640B-GTR	130104
49	FM25C160B-G	130104
50	FM25C160B-GTR	130104
51	FM25CL64B-DG	130104
52	FM25CL64B-DGTR	130104
53	FM25CL64B-G	130104
54	FM25CL64B-GTR	130104
55	FM25L04B-DG	130104
56	FM25L04B-DGTR	130104
57	FM25L04B-G	130104
58	FM25L04B-GTR	130104
59	FM25L16B-DG	130104
60	FM25L16B-DGTR	130104
61	FM25L16B-G	130104
62	FM25L16B-GTR	130104
63	FM25W256-G	130104
64	FM25W256-GTR	130104
65	FM24CL64B-GA	130105
66	FM24CL64B-GATR	130105
67	FM25040B-GA	130105
68	FM25040B-GATR	130105
69	FM25640B-GA	130105
70	FM25640B-GATR	130105
71	FM25C160B-GA	130105
72	FM25C160B-GATR	130105
73	FM25CL64B-GA	130105
74	FM25CL64B-GATR	130105
75	FM25L04B-GA	130105
76	FM25L04B-GATR	130105
77	FM28V020-SG	130804
78	FM28V020-SGTR	130804
79	FM1608B-SG	131102
80	FM1608B-SGTR	131102
81	FM16W08-SG	131102
82	FM16W08-SGTR	131102
83	FM1808B-SG	131102
84	FM1808B-SGTR	131102
85	FM18W08-SG	131102
86	FM18W08-SGTR	131102