



Cypress Semiconductor Corporation – An Infineon Technologies Company
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PRODUCT CHANGE NOTIFICATION

PCN: PCN205101

Date: December 18, 2020

Subject: Qualification of Greatek Electronics Inc. as an Alternate Assembly Site for Select 44-Lead TSOP II Package

To: ABBI RANDLE
AVNET
end-of-life@avnet.com

Description of Change:

Cypress announces the qualification of Greatek Electronics Inc., Taiwan located at No. 136, Gong-Yi Rd., Zhunan Township, Miaoli County 350, Taiwan, as an alternate assembly site for select Memory products offered in 44-Lead TSOP II package.

These products are currently processed at Jiangsu Changjiang Electronics Technology Co., Ltd (JCET) of Cypress' subcontractor in China; Orient Semiconductor Electronics (OSET) of Cypress subcontractor in Taiwan and IFX Cypress Manufacturing Limited (CML) in Philippines. The transfer of assembly operations to Greatek is motivated by JCET's phasing out (i.e., End-Of-Life) of TSOP manufacturing operations, as previously announced in advance PCN - APCN 201001/ 201002 and also as alternative assembly site.

Given the imminent phase out of operations at JCET, and the dynamically changing market conditions, Cypress is pleased to offer supply of changed material (i.e., Greatek assembled product) ahead of the implementation date. Customers are strongly encouraged to avail of this option, where production volumes of Greatek assembled product can be secured and shipped against current orders. Please contact your Cypress Sales Representative for more information on availing this option.

Greatek is certified by international quality and safety standards, namely, ISO 9001, IATF 16949, ISO 14001, and ISO 26262. These certificates, along with their Sony Green Partnership certificate, can be viewed on their corporate web site: <http://www.greatek.com.tw/>

BOM Comparison:

The 44-Lead TSOP II package will be assembled at Greatek using an industry standard set of Bill of Materials (BOM). Please see table below for a comparison of BOM among the assembly sites.

The 44-Lead TSOP II package is assembled at Greatek using the following Bill of Materials (BOM):

For Automotive product:

Material	Greatek BOM	JCET BOM	OSET BOM
Leadframe	Cu Leadframe	PPF Leadframe	Cu Leadframe
Leadfinish	Pure Sn	NiPdAu	Pure Sn
Die Attach Material	Showa Denko EN-4900GC	Henkel QMI-509	Sumitomo CRM-1076W
Wire type	0.9 mil Au wire	0.9mil Au wire	0.8mil Au wire
Mold Compound	Sumitomo EME-G700SLA	Kyocera KE-G6000DA-CY	Sumitomo EME-G631SH

For Non-Automotive product:

Material	Greatek BOM	JCET BOM	OSET BOM	IFX CML BOM
Leadframe	Cu Leadframe	PPF/ Cu Leadframe	Cu Leadframe	PPF/ Cu Leadframe
Leadfinish	Pure Sn	NiPdAu/ Pure Sn	Pure Sn	NiPdAu
Die Attach Material	Showa Denko EN-4900GC	Henkel QMI-509	Henkel 8340/ Sumitomo CRM1076/ Nitto EM-760L2	Henkel QMI-509
Wire type	0.8mil CuPdAu wire	0.8/ 0.9mil Au wire/ 0.8mil CuPd wire	1.0mil Au wire/ 0.8mil Cu wire/ 0.8mil CuPd wire	0.9mil Au wire/ 0.8mil CuPd wire
Mold Compound	Sumitomo EME-G700SLA	Kyocera KE-G6000DA-CY/ Sumitomo EME-G620B / Sumitomo EME-G631SH-Q	Showa Denko CEL 9200HF/ Showa Denko CEL 9200HF-U/ Sumitomo EME-G631	Kyocera KE-G6000DA

Benefit of Change:

Qualification of alternative manufacturing sites provides the means for Cypress to ensure business continuity on the stated products, and thereby meet long-term market demand and delivery commitments to customers after the phase out of operations at JCET.

Part Numbers Affected: 232

See the attached 'Affected Parts List' file for a list of all part numbers affected by this change. Note that any new parts introduced after the publication of this PCN will be assembled at Greatek.

Qualification Status:

Greatek has been qualified through a series of tests documented in the Qualification Test Plan summarized in the table below. These qualification reports can be found as attachments to this PCN or by visiting www.cypress.com and typing the QTP number in the keyword search window.

QTP Number	Qualification Purpose
203206	TSOP II 44L Automotive Package Qual at Greatek Taiwan
203207	TSOP II 44L Package Qual at Greatek Taiwan

Sample Status:

Samples are available now, unless there is an indication that the sample ordering part numbers are subject to lead times. Qualification samples may not be built ahead of time for all part numbers affected by this change.

Please review the attached 'Affected Parts List' file for a list of affected part numbers with their associated Greatek sample ordering part numbers.

If you require qualification samples, please contact your local Cypress sales representative as soon as possible, preferably within 30 days of the date of this notification.

Approximate Implementation Date:

Effective immediately upon customer approval, or 90 days from the date of this notification, whichever comes first, shipments on part numbers in the attached file will be primarily sourced from Greatek. Customers should expect to receive JCET assembled product for a transitional period, until inventory is depleted.

Anticipated Impact:

Products assembled at Greatek are completely compatible with existing products from form, fit, functional, parametric and quality performance perspectives.

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

Method of Identification:

Cypress also maintains traceability of product to 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	Family	Sample Order Part Number	Sample Availability
1	A2C01848400	NVSRAM	A2C01848400KT	Subject to lead time
2	CY14B101KA-ZS25XI	NVSRAM	CY14B101KA-ZS25XIKT	Subject to lead time
3	CY14B101KA-ZS25XIT	NVSRAM	CY14B101KA-ZS25XIKT	Subject to lead time
4	CY14B101KA-ZS45XI	NVSRAM	CY14B101KA-ZS45XIKT	Subject to lead time
5	CY14B101KA-ZS45XIT	NVSRAM	CY14B101KA-ZS45XIKT	Subject to lead time
6	CY14B101LA-ZS20XI	NVSRAM	CY14B101LA-ZS20XIKT	Subject to lead time
7	CY14B101LA-ZS20XIT	NVSRAM	CY14B101LA-ZS20XIKT	Subject to lead time
8	CY14B101LA-ZS25XI	NVSRAM	CY14B101LA-ZS25XIKT	Subject to lead time
9	CY14B101LA-ZS25XIT	NVSRAM	CY14B101LA-ZS25XIKT	Subject to lead time
10	CY14B101LA-ZS45XI	NVSRAM	CY14B101LA-ZS45XIKT	Subject to lead time
11	CY14B101LA-ZS45XIT	NVSRAM	CY14B101LA-ZS45XIKT	Subject to lead time
12	CY14B101NA-ZS25XI	NVSRAM	CY14B101NA-ZS25XIKT	Subject to lead time
13	CY14B101NA-ZS25XIT	NVSRAM	CY14B101NA-ZS25XIKT	Subject to lead time
14	CY14B101NA-ZS45XI	NVSRAM	CY14B101NA-ZS45XIKT	Subject to lead time
15	CY14B101NA-ZS45XIT	NVSRAM	CY14B101NA-ZS45XIKT	Subject to lead time
16	CY14B104K-ZS25XI	ASYN	CY14B104K-ZS25XIKT	Subject to lead time
17	CY14B104K-ZS25XIT	ASYN	CY14B104K-ZS25XIKT	Subject to lead time
18	CY14B104K-ZS45XI	ASYN	CY14B104K-ZS45XIKT	Subject to lead time
19	CY14B104K-ZS45XIT	ASYN	CY14B104K-ZS45XIKT	Subject to lead time
20	CY14B104LA-ZS20XI	NVSRAM	CY14B104LA-ZS20XIKT	Subject to lead time
21	CY14B104LA-ZS20XIT	NVSRAM	CY14B104LA-ZS20XIKT	Subject to lead time
22	CY14B104LA-ZS25XI	NVSRAM	CY14B104LA-ZS25XIKT	Subject to lead time
23	CY14B104LA-ZS25XIT	NVSRAM	CY14B104LA-ZS25XIKT	Subject to lead time
24	CY14B104LA-ZS45XI	NVSRAM	CY14B104LA-ZS45XIKT	Subject to lead time
25	CY14B104LA-ZS45XIT	NVSRAM	CY14B104LA-ZS45XIKT	Subject to lead time
26	CY14B104NA-ZS20XI	NVSRAM	CY14B104NA-ZS20XIKT	Subject to lead time
27	CY14B104NA-ZS20XIT	NVSRAM	CY14B104NA-ZS20XIKT	Subject to lead time
28	CY14B104NA-ZS25XE	NVSRAM	CY14B104NA-ZS25XEKT	Subject to lead time
29	CY14B104NA-ZS25XET	NVSRAM	CY14B104NA-ZS25XEKT	Subject to lead time
30	CY14B104NA-ZS25XI	NVSRAM	CY14B104NA-ZS25XIKT	Subject to lead time
31	CY14B104NA-ZS25XIT	NVSRAM	CY14B104NA-ZS25XIKT	Subject to lead time
32	CY14B104NA-ZS45XE	NVSRAM	CY14B104NA-ZS45XEKT	Subject to lead time
33	CY14B104NA-ZS45XET	NVSRAM	CY14B104NA-ZS45XEKT	Subject to lead time
34	CY14B104NA-ZS45XI	NVSRAM	CY14B104NA-ZS45XIKT	Subject to lead time
35	CY14B104NA-ZS45XIT	NVSRAM	CY14B104NA-ZS45XIKT	Subject to lead time
36	CY14B256LA-ZS25XI	NVSRAM	CY14B256LA-ZS25XIKT	Subject to lead time
37	CY14B256LA-ZS25XIT	NVSRAM	CY14B256LA-ZS25XIKT	Subject to lead time
38	CY62126EV30LL-45ZSXI	ASYN	CY62126EV30LL-45ZSXIKT	Subject to lead time
39	CY62126EV30LL-45ZSXIT	ASYN	CY62126EV30LL-45ZSXIKT	Subject to lead time
40	CY62136ESL-45ZSXI	ASYN	CY62136ESL-45ZSXIKT	Subject to lead time
41	CY62136ESL-45ZSXIT	ASYN	CY62136ESL-45ZSXIKT	Subject to lead time
42	CY62136EV30LL-45ZSXI	ASYN	CY62136EV30LL-45ZSXIKT	Subject to lead time
43	CY62136EV30LL-45ZSXIT	ASYN	CY62136EV30LL-45ZSXIKT	Subject to lead time
44	CY62136FV30LL-45ZSXI	ASYN	CY62136FV30LL-45ZSXIKT	Subject to lead time
45	CY62136FV30LL-45ZSXIT	ASYN	CY62136FV30LL-45ZSXIKT	Subject to lead time
46	CY62137EV30LL-45ZSXI	ASYN	CY62137EV30LL-45ZSXIKT	Subject to lead time

47	CY62137EV30LL-45ZSXIT	ASync	CY62137EV30LL-45ZSXIKT	Subject to lead time
48	CY62137FV30LL-45ZSXI	ASync	CY62137FV30LL-45ZSXIKT	Subject to lead time
49	CY62137FV30LL-45ZSXIT	ASync	CY62137FV30LL-45ZSXIKT	Subject to lead time
50	CY62146ELL-45ZSXI	ASync	CY62146ELL-45ZSXIKT	Subject to lead time
51	CY62146ELL-45ZSXIT	ASync	CY62146ELL-45ZSXIKT	Subject to lead time
52	CY62146ESL-45ZSXI	ASync	CY62146ESL-45ZSXIKT	Subject to lead time
53	CY62146ESL-45ZSXIT	ASync	CY62146ESL-45ZSXIKT	Subject to lead time
54	CY62146EV30LL-45ZSXI	ASync	CY62146EV30LL-45ZSXIKT	Subject to lead time
55	CY62146EV30LL-45ZSXIT	ASync	CY62146EV30LL-45ZSXIKT	Subject to lead time
56	CY62146G30-45ZSXI	ASync	CY62146G30-45ZSXIKT	Subject to lead time
57	CY62146G30-45ZSXIT	ASync	CY62146G30-45ZSXIKT	Subject to lead time
58	CY62146G-45ZSXI	ASync	CY62146G-45ZSXIKT	Subject to lead time
59	CY62146G-45ZSXIT	ASync	CY62146G-45ZSXIKT	Subject to lead time
60	CY62146GE30-45ZSXI	ASync	CY62146GE30-45ZSXIKT	Subject to lead time
61	CY62146GE30-45ZSXIT	ASync	CY62146GE30-45ZSXIKT	Subject to lead time
62	CY62146GE-45ZSXI	ASync	CY62146GE-45ZSXIKT	Subject to lead time
63	CY62146GE-45ZSXIT	ASync	CY62146GE-45ZSXIKT	Subject to lead time
64	CY62146GN30-45ZSXI	ASync	CY62146GN30-45ZSXIKT	Subject to lead time
65	CY62146GN30-45ZSXIT	ASync	CY62146GN30-45ZSXIKT	Subject to lead time
66	CY62146GN-45ZSXI	ASync	CY62146GN-45ZSXIKT	Subject to lead time
67	CY62146GN-45ZSXIT	ASync	CY62146GN-45ZSXIKT	Subject to lead time
68	CY621472E30LL-45ZSXI	ASync	CY621472E30LL-45ZSXIKT	Subject to lead time
69	CY621472E30LL-45ZSXIT	ASync	CY621472E30LL-45ZSXIKT	Subject to lead time
70	CY621472G30-45ZSXI	ASync	CY621472G30-45ZSXIKT	Subject to lead time
71	CY621472G30-45ZSXIT	ASync	CY621472G30-45ZSXIKT	Subject to lead time
72	CY621472GN30-45ZSXI	ASync	CY621472GN30-45ZSXIKT	Subject to lead time
73	CY621472GN30-45ZSXIT	ASync	CY621472GN30-45ZSXIKT	Subject to lead time
74	CY62147EV30LL-45ZSXI	ASync	CY62147EV30LL-45ZSXIKT	Subject to lead time
75	CY62147EV30LL-45ZSXIT	ASync	CY62147EV30LL-45ZSXIKT	Subject to lead time
76	CY62147G18-55ZSXI	ASync	CY62147G18-55ZSXIKT	Subject to lead time
77	CY62147G18-55ZSXIT	ASync	CY62147G18-55ZSXIKT	Subject to lead time
78	CY62147G30-45ZSXI	ASync	CY62147G30-45ZSXIKT	Subject to lead time
79	CY62147G30-45ZSXIT	ASync	CY62147G30-45ZSXIKT	Subject to lead time
80	CY62147G-45ZSXI	ASync	CY62147G-45ZSXIKT	Subject to lead time
81	CY62147G-45ZSXIT	ASync	CY62147G-45ZSXIKT	Subject to lead time
82	CY62147GE18-55ZSXI	ASync	CY62147GE18-55ZSXIKT	Subject to lead time
83	CY62147GE18-55ZSXIT	ASync	CY62147GE18-55ZSXIKT	Subject to lead time
84	CY62147GE30-45ZSXI	ASync	CY62147GE30-45ZSXIKT	Subject to lead time
85	CY62147GE30-45ZSXIT	ASync	CY62147GE30-45ZSXIKT	Subject to lead time
86	CY62147GE-45ZSXI	ASync	CY62147GE-45ZSXIKT	Subject to lead time
87	CY62147GE-45ZSXIT	ASync	CY62147GE-45ZSXIKT	Subject to lead time
88	CY62147GN30-45ZSXI	ASync	CY62147GN30-45ZSXIKT	Subject to lead time
89	CY62147GN30-45ZSXIT	ASync	CY62147GN30-45ZSXIKT	Subject to lead time
90	CY62157ELL-45ZSXI	ASync	CY62157ELL-45ZSXIKT	Subject to lead time
91	CY62157ELL-45ZSXIT	ASync	CY62157ELL-45ZSXIKT	Subject to lead time
92	CY62157ESL-45ZSXI	ASync	CY62157ESL-45ZSXIKT	Subject to lead time
93	CY62157ESL-45ZSXIT	ASync	CY62157ESL-45ZSXIKT	Subject to lead time

94	CY62157EV30LL-45ZSXI	ASync	CY62157EV30LL-45ZSXIKT	Subject to lead time
95	CY62157EV30LL-45ZSXIT	ASync	CY62157EV30LL-45ZSXIKT	Subject to lead time
96	CY62157G30-45ZSXI	ASync	CY62157G30-45ZSXIKT	Subject to lead time
97	CY62157G30-45ZSXIT	ASync	CY62157G30-45ZSXIKT	Subject to lead time
98	CY62158ELL-45ZSXI	ASync	CY62158ELL-45ZSXIKT	Subject to lead time
99	CY62158ELL-45ZSXIT	ASync	CY62158ELL-45ZSXIKT	Subject to lead time
100	CY62158EV30LL-45ZSXI	ASync	CY62158EV30LL-45ZSXIKT	Subject to lead time
101	CY62158EV30LL-45ZSXIT	ASync	CY62158EV30LL-45ZSXIKT	Subject to lead time
102	CY62158G30-45ZSXI	ASync	CY62158G30-45ZSXIKT	Subject to lead time
103	CY62158G30-45ZSXIT	ASync	CY62158G30-45ZSXIKT	Subject to lead time
104	CY62158H-45ZSXI	ASync	CY62158H-45ZSXIKT	Subject to lead time
105	CY62158H-45ZSXIT	ASync	CY62158H-45ZSXIKT	Subject to lead time
106	CY7C1010DV33-10ZSXI	ASync	CY7C1010DV33-10ZSXIKT	Subject to lead time
107	CY7C1010DV33-10ZSXIT	ASync	CY7C1010DV33-10ZSXIKT	Subject to lead time
108	CY7C1011DV33-10ZSXI	ASync	CY7C1011DV33-10ZSXIKT	Subject to lead time
109	CY7C1011DV33-10ZSXIT	ASync	CY7C1011DV33-10ZSXIKT	Subject to lead time
110	CY7C1020D-10ZSXI	ASync	CY7C1020D-10ZSXIKT	Subject to lead time
111	CY7C1020D-10ZSXIT	ASync	CY7C1020D-10ZSXIKT	Subject to lead time
112	CY7C1020DV33-10ZSXI	ASync	CY7C1020DV33-10ZSXIKT	Subject to lead time
113	CY7C1020DV33-10ZSXIT	ASync	CY7C1020DV33-10ZSXIKT	Subject to lead time
114	CY7C1021D-10ZSXI	ASync	CY7C1021D-10ZSXIKT	Subject to lead time
115	CY7C1021D-10ZSXIT	ASync	CY7C1021D-10ZSXIKT	Subject to lead time
116	CY7C1021DV33-10ZSXI	ASync	CY7C1021DV33-10ZSXIKT	Subject to lead time
117	CY7C1021DV33-10ZSXIT	ASync	CY7C1021DV33-10ZSXIKT	Subject to lead time
118	CY7C1041G-10ZSXI	ASync	CY7C1041G-10ZSXIKT	Subject to lead time
119	CY7C1041G-10ZSXIT	ASync	CY7C1041G-10ZSXIKT	Subject to lead time
120	CY7C1041G18-15ZSXI	ASync	CY7C1041G18-15ZSXIKT	Subject to lead time
121	CY7C1041G18-15ZSXIT	ASync	CY7C1041G18-15ZSXIKT	Subject to lead time
122	CY7C1041G30-10ZSXI	ASync	CY7C1041G30-10ZSXIKT	Subject to lead time
123	CY7C1041G30-10ZSXIT	ASync	CY7C1041G30-10ZSXIKT	Subject to lead time
124	CY7C1041GE-10ZSXI	ASync	CY7C1041GE-10ZSXIKT	Subject to lead time
125	CY7C1041GE-10ZSXIT	ASync	CY7C1041GE-10ZSXIKT	Subject to lead time
126	CY7C1041GE30-10ZSXI	ASync	CY7C1041GE30-10ZSXIKT	Subject to lead time
127	CY7C1041GE30-10ZSXIT	ASync	CY7C1041GE30-10ZSXIKT	Subject to lead time
128	CY7C1041GN-10ZSXI	ASync	CY7C1041GN-10ZSXIKT	Subject to lead time
129	CY7C1041GN-10ZSXIT	ASync	CY7C1041GN-10ZSXIKT	Subject to lead time
130	CY7C1041GN30-10ZSXI	ASync	CY7C1041GN30-10ZSXIKT	Subject to lead time
131	CY7C1041GN30-10ZSXIT	ASync	CY7C1041GN30-10ZSXIKT	Subject to lead time
132	CY7C1049G-10ZSXI	ASync	CY7C1049G-10ZSXIKT	Subject to lead time
133	CY7C1049G-10ZSXIT	ASync	CY7C1049G-10ZSXIKT	Subject to lead time
134	CY7C1049G18-15ZSXI	ASync	CY7C1049G18-15ZSXIKT	Subject to lead time
135	CY7C1049G18-15ZSXIT	ASync	CY7C1049G18-15ZSXIKT	Subject to lead time
136	CY7C1049G30-10ZSXI	ASync	CY7C1049G30-10ZSXIKT	Subject to lead time
137	CY7C1049G30-10ZSXIT	ASync	CY7C1049G30-10ZSXIKT	Subject to lead time
138	CY7C1049GE30-10ZSXI	ASync	CY7C1049GE30-10ZSXIKT	Subject to lead time
139	CY7C1049GE30-10ZSXIT	ASync	CY7C1049GE30-10ZSXIKT	Subject to lead time
140	CY7C1049GN30-10ZSXI	ASync	CY7C1049GN30-10ZSXIKT	Subject to lead time

141	CY7C1049GN30-10ZSXIT	ASYNCR	CY7C1049GN30-10ZSXIKT	Subject to lead time
142	CY7C1051H30-10ZSXI	ASYNCR	CY7C1051H30-10ZSXIKT	Subject to lead time
143	CY7C1051H30-10ZSXIT	ASYNCR	CY7C1051H30-10ZSXIKT	Subject to lead time
144	CY7S1041G-10ZSXI	ASYNCR	CY7S1041G-10ZSXIKT	Subject to lead time
145	CY7S1041G-10ZSXIT	ASYNCR	CY7S1041G-10ZSXIKT	Subject to lead time
146	CY7S1041G30-10ZSXI	ASYNCR	CY7S1041G30-10ZSXIKT	Subject to lead time
147	CY7S1041G30-10ZSXIT	ASYNCR	CY7S1041G30-10ZSXIKT	Subject to lead time
148	CG10055AF	ASYNCR	CG10055UF	Subject to lead time
149	CG10055AFT	ASYNCR	CG10055UF	Subject to lead time
150	CG10081AF	ASYNCR	CG10081UF	Subject to lead time
151	CG10081AFT	ASYNCR	CG10081UF	Subject to lead time
152	CG10105AF	ASYNCR	CG10105UF	Subject to lead time
153	CG10105AFT	ASYNCR	CG10105UF	Subject to lead time
154	CG7285AT	NVSRAM	CG7285UT	Subject to lead time
155	CG7647AA	ASYNCR	CG7647UA	Subject to lead time
156	CG7647AAT	ASYNCR	CG7647UA	Subject to lead time
157	CG7689AA	ASYNCR	CG7689UA	Subject to lead time
158	CG7689AAT	ASYNCR	CG7689UA	Subject to lead time
159	CG7690AA	ASYNCR	CG7690UA	Subject to lead time
160	CG7690AAT	ASYNCR	CG7690UA	Subject to lead time
161	CG7691AA	ASYNCR	CG7691UA	Subject to lead time
162	CG7691AAT	ASYNCR	CG7691UA	Subject to lead time
163	CG7740AA	ASYNCR	CG7740UA	Subject to lead time
164	CG7740AAT	ASYNCR	CG7740UA	Subject to lead time
165	CG7794AA	ASYNCR	CG7794UA	Subject to lead time
166	CG7794AAT	ASYNCR	CG7794UA	Subject to lead time
167	CG7797AA	ASYNCR	CG7797UA	Subject to lead time
168	CG7797AAT	ASYNCR	CG7797UA	Subject to lead time
169	CG7818AA	ASYNCR	CG7818UA	Subject to lead time
170	CG7818AAT	ASYNCR	CG7818UA	Subject to lead time
171	CG7832AA	NVSRAM	CG7832UA	Subject to lead time
172	CG7832AAT	NVSRAM	CG7832UA	Subject to lead time
173	CG7945AA	ASYNCR	CG7945UA	Subject to lead time
174	CG7945AAT	ASYNCR	CG7945UA	Subject to lead time
175	CG7947AA	ASYNCR	CG7947UA	Subject to lead time
176	CG7947AAT	ASYNCR	CG7947UA	Subject to lead time
177	CG8187AA	ASYNCR	CG8187UA	Subject to lead time
178	CG8187AAT	ASYNCR	CG8187UA	Subject to lead time
179	CG8264AA	ASYNCR	CG8264UA	Subject to lead time
180	CG8395AT	FRAM	CG8395UT	Subject to lead time
181	CG8395ATT	FRAM	CG8395UT	Subject to lead time
182	CG8556AA	ASYNCR	CG8556UA	Subject to lead time
183	CG8556AAT	ASYNCR	CG8556UA	Subject to lead time
184	CG8557AA	ASYNCR	CG8557UA	Subject to lead time
185	CG8557AAT	ASYNCR	CG8557UA	Subject to lead time
186	CG8605AA	ASYNCR	CG8605UA	Subject to lead time
187	CG8605AAT	ASYNCR	CG8605UA	Subject to lead time

188	CG8630AA	ASYN	CG8630UA	Subject to lead time
189	CG8630AAT	ASYN	CG8630UA	Subject to lead time
190	CG8830AM	ASYN	CG8830UM	Subject to lead time
191	CG8830AMT	ASYN	CG8830UM	Subject to lead time
192	CG8831AM	ASYN	CG8831UM	Subject to lead time
193	CG8832AM	ASYN	CG8832UM	Subject to lead time
194	CG8832AMT	ASYN	CG8832UM	Subject to lead time
195	CG8835AM	ASYN	CG8835UM	Subject to lead time
196	CG8835AMT	ASYN	CG8835UM	Subject to lead time
197	CG8876AM	ASYN	CG8876UM	Subject to lead time
198	CG8876AMT	ASYN	CG8876UM	Subject to lead time
199	CG8877AM	ASYN	CG8877UM	Subject to lead time
200	CG8877AMT	ASYN	CG8877UM	Subject to lead time
201	CG8888AM	ASYN	CG8888UM	Subject to lead time
202	CG8888AMT	ASYN	CG8888UM	Subject to lead time
203	CG8985AM	ASYN	CG8985UM	Subject to lead time
204	CG8985AMT	ASYN	CG8985UM	Subject to lead time
205	CG8986AM	NVSRAM	CG8986UM	Subject to lead time
206	CG8986AMT	NVSRAM	CG8986UM	Subject to lead time
207	CG8991AA	ASYN	CG8991UA	Subject to lead time
208	CG8991AAT	ASYN	CG8991UA	Subject to lead time
209	CG9066AM	NVSRAM	CG9066UM	Subject to lead time
210	CG9066AMT	NVSRAM	CG9066UM	Subject to lead time
211	CG9071AM	FRAM	CG9071UM	Subject to lead time
212	CG9071AMT	FRAM	CG9071UM	Subject to lead time
213	CG9075AM	FRAM	CG9075UM	Subject to lead time
214	CG9075AMT	FRAM	CG9075UM	Subject to lead time
215	CG9079AA	ASYN	CG9079UA	Subject to lead time
216	CG9079AAT	ASYN	CG9079UA	Subject to lead time
217	CG9081AA	ASYN	CG9081UA	Subject to lead time
218	CG9081AAT	ASYN	CG9081UA	Subject to lead time
219	CG9159AT	ASYN	CG9159UT	Subject to lead time
220	CG9159ATT	ASYN	CG9159UT	Subject to lead time
221	CG9187AA	NVSRAM	CG9187UA	Subject to lead time
222	CG9187AAT	NVSRAM	CG9187UA	Subject to lead time
223	CG9229AA	NVSRAM	CG9229UA	Subject to lead time
224	CG9229AAT	NVSRAM	CG9229UA	Subject to lead time
225	CG9231AF	ASYN	CG9231UF	Subject to lead time
226	CG9231AFT	ASYN	CG9231UF	Subject to lead time
227	FM22L16-55-TG	FRAM	FM22L16-55-TGKT	Available
228	FM22L16-55-TGTR	FRAM	FM22L16-55-TGKT	Available
229	FM28V102A-TG	FRAM	FM28V102A-TGKT	Subject to lead time
230	FM28V102A-TGTR	FRAM	FM28V102A-TGKT	Subject to lead time
231	FM28V202A-TG	FRAM	FM28V202A-TGKT	Available
232	FM28V202A-TGTR	FRAM	FM28V202A-TGKT	Available



Cypress Semiconductor Reliability Qualification Report

QTP# 203206
Version **

Issue Date: 12/11/2020

CY14B104NA

Qualification of: 203206: To qualify alternative assembly site for ZW44 automotive package

Notice: The information in this report is confidential. It is prepared to assist in the qualification of our products. It is declassified for the internal use of our customers only, and may be modified to meet the needs of specific customers

The package details (material set, assembly location, etc.) are specific to the qual vehicles used for qualification. Alternate material sets and assembly locations may be qualified for the affected products. Production material may be assembled with any qualified material set and at any qualified assembly location.

FOR ANY QUESTION ON THIS REPORT, Please Contact
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1.0 Product and Package Information

1.0.1 Product Description

Product Part Number	CY14B104NA-ZS25XE	Cypress Division	MS
Device Description	NA		

1.0.2 Package Information

Package Designation	ZW44A	Qual Record	QTP 203206
Package Outline	44-leads TSOP II (400mils)		
Assembly	Greatek-Taiwan (IG)	Mold Compound	SUMITOMO G700SLA
Electrical Test	CML-Philippines (R)	Die Attach	Hitachi EN-4900GC
Substrate/Leadframe	Cu LF	Flammability	V0 UL94
O2 Index	54%	Lead Finish	Pure Sn
Number of Die	1		

1.0.3 Die information

Die 1	7A1404B6C	Process	S8_CAP
Type	NA	FAB	SKYWATER

2.0 Summary of stress test result

2.1 Reliability data collected from Qualification

Stress	Condition	Fab lot	Lot	Package	Assembly Site	TV	Read Point	SS	Reject	Comment
BALL BOND SHEAR	As specified	4852981	612025330	ZW44A	IG	1	COMP	30	0	
		4852981	612025329	ZW44A	IG	2	COMP	30	0	
		4852981	612025331	ZW44A	IG	3	COMP	30	0	
BIASED HAST	130°C / 85%RH	4852981	612025330	ZW44A	IG	1	96	80	0	
		4852981	612025329	ZW44A	IG	2	96	80	0	
		4852981	612025331	ZW44A	IG	3	96	80	0	
BOND PULL STRENGTH	As specified	4852981	612025330	ZW44A	IG	1	COMP	30	0	
		4852981	612025329	ZW44A	IG	2	COMP	30	0	
		4852981	612025331	ZW44A	IG	3	COMP	30	0	
BOND STRENGTH	As specified	4852981	612025330	ZW44A	IG	1	COMP	5	0	
		4852981	612025330	ZW44A	IG	1	COMP	5	0	
CONSTRUCTION ANALYSIS	As specified	4852981	612025329	ZW44A	IG	2	COMP	5	0	
		4852981	612025331	ZW44A	IG	3	COMP	5	0	
		4852981	612025330	ZW44A	IG	1	COMP	5	0	
DIE SHEAR	As specified	4852981	612025329	ZW44A	IG	2	COMP	5	0	
		4852981	612025331	ZW44A	IG	3	COMP	5	0	
		4852981	612025330	ZW44A	IG	1	COMP	15	0	
DYE PENETRANT	As specified	4852981	612025329	ZW44A	IG	2	COMP	15	0	



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		4852981	612025331	ZW44A	IG	3	COMP	15	0
EARLY LIFE FAILURE RATE	150°C			SOIC 32	IG	19	48	800	0
ELECTRICAL DISTRIBUTIONS / CHARACTERIZATION	As specified	4852981	612025330	ZW44A	IG	1	COMP	30	0
		4852981	612025329	ZW44A	IG	2	COMP	30	0
		4852981	612025331	ZW44A	IG	3	COMP	30	0
ESD (CDM) SENSITIVITY	As specified	4852981	612025330	ZW44A	IG	1	COMP	6	0
ESD (HBM) SENSITIVITY	As specified	4852981	612025330	ZW44A	IG	1	COMP	9	0
FINAL VISUAL INSPECTION	As specified	4852981	612025330	ZW44A	IG	1	COMP	1260	0
		4852981	612025329	ZW44A	IG	2	COMP	626	0
		4852981	612025331	ZW44A	IG	3	COMP	626	0
HIGH TEMP STORAGE LIFE	175°C	4852981	612025330	ZW44A	IG	1	500	77	0
HIGH TEMP STORAGE LIFE	150°C	4852981	612025330	ZW44A	IG	1	1000	77	0
HTSL PRE CONDITIONING	24HRS_125°C	4852981	612025330	ZW44A	IG	1	COMP	154	0
		9015016	612032277	ZW44A	IG	4	COMP	0	0
		4852981	612025330	ZW44A	IG	1	408	77	0
INHERENT LIFE FAILURE RATE	150°C	4852981	612025329	ZW44A	IG	2	408	80	0
		4852981	612025331	ZW44A	IG	3	408	80	0
LEAD INTEGRITY	As specified	4852981	612025330	ZW44A	IG	1	COMP	5	0
		4852981	612025330	ZW44A	IG	1	COMP	10	0
PHYSICAL DIMENSIONS	As specified	4852981	612025329	ZW44A	IG	2	COMP	10	0
		4852981	612025331	ZW44A	IG	3	COMP	10	0
PRE CONDITIONING	MSL3_30°C / 60%RH for 192 hrs	4852981	612025330	ZW44A	IG	1	COMP	245	0
		4852981	612025329	ZW44A	IG	2	COMP	240	0
		4852981	612025331	ZW44A	IG	3	COMP	240	0
		4852981	612025330	ZW44A	IG	1	168	77	0
							288	77	
PRESSURE COOKER TEST	121°C / 100%RH / 15psig	4852981	612025329	ZW44A	IG	2	168	80	0
							288	80	
		4852981	612025331	ZW44A	IG	3	168	80	0
							288	80	
SOLDERABILITY DIP AND LOOK	As specified	4852981	612025330	ZW44A	IG	1	COMP	15	0
		4852981	612025330	ZW44A	IG	1	500	85	0
							1000	80	
TEMP CYCLE	C -65°C to 150°C	4852981	612025329	ZW44A	IG	2	500	80	0
							1000	80	
		4852981	612025331	ZW44A	IG	3	500	80	0
							1000	80	
TIN WHISKER TESTING	As specified	4852981	612025330	ZW44A	IG	1	COMP	18	0
		4852981	612025330	ZW44A	IG	1	COMP	15	0
X-RAY FA	As specified	4852981	612025329	ZW44A	IG	2	COMP	15	0
		4852981	612025331	ZW44A	IG	3	COMP	15	0

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Reliability Tests Performed per Specification Requirement

Stress	Condition	Specification Reference
BOND STRENGTH	As specified	883-2011, AEC-Q100 22-00113, MIL-STD-883 MET 2011
BALL BOND SHEAR	As specified	12-00292, AEC-Q100-001 / AEC-Q003 / JESD22-B116 MIL-STD-883, MET 2011.9
CONSTRUCTION ANALYSIS	As specified	25-20035
ESD (CDM) SENSITIVITY	As specified	AEC-Q100, AEC-Q100-011, 25-00020
DYE PENETRANT	As specified	25-20035, 12-00292
DIE SHEAR	As specified	12-00292. MIL--883 MET 2019, AEC-Q100 MET 5005./2019/TM 2027
EARLY LIFE FAILURE RATE	150°C	25-20040, JESD22-A108 AEC-Q100, AEC-Q100-008
ELECTRICAL DISTRIBUTIONS / CHARACTERIZATION	As specified	AEC-Q100-009, AEC-Q003, AEC-Q100 Per requirements
ESD (HBM) SENSITIVITY	As specified	001-42196, IEC/EN 61000-4-2 25-00020, 001-10140, JS-001 AEC-Q100, AEC-Q100-002
BIASED HAST	130°C / 85%RH	25-00132, JESD22-A110, AEC-Q100
HIGH TEMP STORAGE LIFE	150°C	25-00135, JESD22-A103, AEC-Q100
HIGH TEMP STORAGE LIFE	175°C	25-00135, JESD22-A103, AEC-Q100
INHERENT LIFE FAILURE RATE	150°C	25-20040, JESD22-A108, AEC-Q100
LEAD INTEGRITY	As specified	25-00004, JESD22-B105, AEC-Q100 MIL-STD-883, MET 2004.7
PRE CONDITIONING	MSL3_30°C / 60%RH for 192 hrs	25-00090, JTD-020, JESD22-A113, AEC-Q100
PRESSURE COOKER TEST	121°C / 100%RH / 15psig	25-00131, AEC-Q100, JESD22-A102
PHYSICAL DIMENSIONS	As specified	JESD22B108, 25-00031, JESD22- B100, MIL-STD-883 MET 2016
TEMP CYCLE	C -65°C to 150°C	25-00130, JESD22-A104, JESD47, AEC-Q100 MIL-STD-883 MET 1010 , MILPRF- 38535
FINAL VISUAL INSPECTION	As specified	12-00292, 12-00103



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Revision History

Document Title: New Qualification Report for Automotive CY14B104NA, S8_CAP Technology, Greatek-Taiwan (IG), QTP#(203206)

Document Number: 002-31990

Rev.	Issue Date	ECN No.	Originator	Description
**	12/11/2020	7042871	HSTO	New Qualification Report for Automotive CY14B104NA, S8_CAP Technology, Greatek-Taiwan (IG), QTP # (203206)

Cypress Semiconductor Reliability Qualification Report

QTP# 203207
Version **

Issue Date: 12/11/2020

**CY14B104NA/CY62126EV30LL/CY7C1011DV33/CY7C1021D/FM22L16/
CY14B101KA/CY62137FV30LL**

**Qualification of: 203207: To qualify alternative assembly site for ZW44
Commercial and Industrial packages at Greatek-Taiwan (IG)**

Notice: The information in this report is confidential. It is prepared to assist in the qualification of our products. It is declassified for the internal use of our customers only, and may be modified to meet the needs of specific customers

The package details (material set, assembly location, etc.) are specific to the qual vehicles used for qualification. Alternate material sets and assembly locations may be qualified for the affected products. Production material may be assembled with any qualified material set and at any qualified assembly location.

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1.0 Product and Package Information

1.0.1 Product Description

Product Part Number	CY14B104NA-ZS20XI	Cypress Division	MS
Device Description	7CP1404B6C		

1.0.2 Package Information

Package Designation	ZW44A	Qual Record	QTP 203207
Package Outline	18.4 x 10.2 x 1.194mm		
Assembly	Greatek-Taiwan (IG)	Mold Compound	Sumitomo G700SLA
Electrical Test	CML-Philippines (R)	Die Attach	EN4900GC
Substrate/Leadframe	CU LF C7025	Flammability	UL-94
O2 Index	54%	Lead Finish	Pure Tin
Number of Die	1		

1.0.3 Die information

Die 1	7CP1404B6C	Process	S8_CAP
Type	NA	FAB	SKYWATER

1.1 Product and Package Information

1.1.1 Product Description

Product Part Number	CY62126EV30LL-45ZSXI	Cypress Division	MS
Device Description	7CP62126F		

1.1.2 Package Information

Package Designation	ZW44A	Qual Record	QTP 203207
Package Outline	18.4 x 10.2 x 1.194mm		
Assembly	Greatek-Taiwan (IG)	Mold Compound	Sumitomo G700SLA
Electrical Test	CML-Philippines (R)	Die Attach	EN48900GC
Substrate/Leadframe	Cu LF	Flammability	U-94
O2 Index	54%	Lead Finish	Pure Tin
Number of Die	1		

1.1.3 Die information

Die 1	7CP62126FC	Process	C9_CAP
Type	NA	FAB	SKYWATER

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1.2 Product and Package Information

1.2.1 Product Description

Product Part Number	CY7C1011DV33-10ZSXI	Cypress Division	MS
Device Description	7CP13412N		

1.2.2 Package Information

Package Designation	ZW44A	Qual Record	QTP 203207
Package Outline	18.4 x 10.2 x 1.194mm		
Assembly	Greatek-Taiwan (IG)	Mold Compound	Sumitomo
Electrical Test	CML-Philippines (R)	Die Attach	EN4900GC
Substrate/Leadframe	Cu LF	Flammability	U-94
O2 Index	54%	Lead Finish	Pure Tin
Number of Die	1		

1.2.3 Die information

Die 1	7CP13412NC	Process	C9_CAP
Type	NA	FAB	SKYWATER

1.3 Product and Package Information

1.3.1 Product Description

Product Part Number	CY7C1021D-10ZSXI	Cypress Division	MS
Device Description	7C1021P		

1.3.2 Package Information

Package Designation	ZW44A	Qual Record	QTP 203207
Package Outline	18.4 x 10.2 x 1.194mm		
Assembly	Greatek-Taiwan (IG)	Mold Compound	Sumitomo G700SLA
Electrical Test	CML-Philippines (R)	Die Attach	EN4900GC
Substrate/Leadframe	Cu LF	Flammability	U-94
O2 Index	54%	Lead Finish	Pure Tin
Number of Die	1		

1.3.3 Die information

Die 1	7C1021P	Process	C9_CAP
Type	NA	FAB	SKYWATER

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1.4 Product and Package Information

1.4.1 Product Description

Product Part Number	FM22L16-55-TG	Cypress Division	MS
Device Description	FM22L16DA		

1.4.2 Package Information

Package Designation	ZW44B	Qual Record	QTP 203207
Package Outline	18.4 x 10.2 x 1.194mm		
Assembly	Greatek-Taiwan (IG)	Mold Compound	Sumitomo G700SLA
Electrical Test	CML-Philippines (R)	Die Attach	EN4900GC
Substrate/Leadframe	Cu LF	Flammability	U-94
O2 Index	54%	Lead Finish	Pure Tin
Number of Die	1		

1.4.3 Die information

Die 1	FM22L16DA	Process	FRAM
Type	NA	FAB	2

1.5 Product and Package Information

1.5.1 Product Description

Product Part Number	CY14B101KA-ZS25XI	Cypress Division	MS
Device Description	7CP1401B1DB		

1.5.2 Package Information

Package Designation	ZW44A	Qual Record	QTP 203207
Package Outline	18.4 x 10.2 x 1.194mm		
Assembly	IG	Mold Compound	Sumitomo G700SLA
Electrical Test	CML	Die Attach	EN4900GC
Substrate/Leadframe	Cu LF	Flammability	U-94
O2 Index	54%	Lead Finish	Pure Tin
Number of Die	1		

1.5.3 Die information

Die 1	7CP1401B1DB	Process	S8_CAP
Type	NA	FAB	SKYWATER

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1.6 Product and Package Information

1.6.1 Product Description

Product Part Number	CY62137FV30LL-45ZSXI	Cypress Division	MS
Device Description	7CP62137G		

1.6.2 Package Information

Package Designation	ZW44A	Qual Record	QTP 203207
Package Outline	18.4 x 10.2 x 1.194mm		
Assembly	Greatek-Taiwan (IG)	Mold Compound	Sumitomo G700SLA
Electrical Test	CML-Philippines (R)	Die Attach	EN4900GC
Substrate/Leadframe	Cu LF	Flammability	U-94
O2 Index	54%	Lead Finish	Pure Tin
Number of Die	1		

1.6.3 Die information

Die 1	7CP62137GC	Process	C9_CAP
Type	NA	FAB	SKYWATER

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2.0 Summary of stress test result

2.1 Reliability data collected from Qualification

Stress	Condition	Fab lot	Lot	Package	Assembly Site	TV	Read Point	SS	Reject	Comment
BALL BOND SHEAR	As specified	4911014	612026340	ZW44A	IG	1	COMP	30	0	
		4911014	612026341	ZW44A	IG	2	COMP	30	0	
		4911014	612026342	ZW44A	IG	3	COMP	30	0	
BIASED HAST	130°C / 85%RH	4911014	612026340	ZW44A	IG	1	96	28	0	
		4911014	612026341	ZW44A	IG	2	96	28	0	
		4911014	612026342	ZW44A	IG	3	96	28	0	
BOND STRENGTH	As specified	4911014	612026340	ZW44A	IG	1	COMP	30	0	
		4911014	612026341	ZW44A	IG	2	COMP	30	0	
		4911014	612026342	ZW44A	IG	3	COMP	30	0	
CONSTRUCTION ANALYSIS	As specified	4911014	612026340	ZW44A	IG	1	COMP	5	0	
		4911014	612026341	ZW44A	IG	2	COMP	5	0	
		4911014	612026342	ZW44A	IG	3	COMP	5	0	
		3943111	612030359	ZW44A	IG	4	COMP	5	0	
		4912700	612030361	ZW44A	IG	9	COMP	5	0	
		4909679	612030360	ZW44A	IG	10	COMP	5	0	
		4939700	612030358	ZW44A	IG	12	COMP	5	0	
		4915861	612030357	ZW44A	IG	13	COMP	5	0	
		2025000	612030354	ZW44B	IG	14	COMP	5	0	
		2025000	612030355	ZW44B	IG	15	COMP	5	0	
DIE SHEAR	As specified	4911014	612026340	ZW44A	IG	1	COMP	5	0	
		4911014	612026341	ZW44A	IG	2	COMP	5	0	
		4911014	612026342	ZW44A	IG	3	COMP	5	0	
		4911014	612026340	ZW44A	IG	1	COMP	15	0	
DYE PENETRANT	As specified	4911014	612026341	ZW44A	IG	2	COMP	15	0	
		4911014	612026342	ZW44A	IG	3	COMP	15	0	
		3943111	612030359	ZW44A	IG	4	COMP	15	0	
		4912700	612030361	ZW44A	IG	9	COMP	15	0	
		4909679	612030360	ZW44A	IG	10	COMP	15	0	
		4939700	612030358	ZW44A	IG	12	COMP	15	0	
		4915861	612030357	ZW44A	IG	13	COMP	15	0	
		2025000	612030354	ZW44B	IG	14	COMP	15	0	
		2025000	612030355	ZW44B	IG	15	COMP	15	0	
		2025000	612030356	ZW44B	IG	16	COMP	15	0	
ESD (CDM) SENSITIVITY	500V/1,000V/1,250V	4911014	612026340	ZW44A	IG	1	COMP	15	0	
		4911014	612026340	ZW44A	IG	1	COMP	640	0	
		4911014	612026341	ZW44A	IG	2	COMP	460	0	
FINAL VISUAL INSPECTION	As specified	4911014	612026342	ZW44A	IG	3	COMP	396	0	
		4911014	612026340	ZW44A	IG	1	COMP	15	0	
		4911014	612026341	ZW44A	IG	2	COMP	15	0	
GLUE ADHESION	As specified	4911014	612026340	ZW44A	IG	1	COMP	15	0	
		4911014	612026341	ZW44A	IG	2	COMP	15	0	
		4911014	612026342	ZW44A	IG	3	COMP	15	0	
HIGH TEMP STORAGE LIFE	150°C	4911014	612026340	ZW44A	IG	1	500 1000	80 80	0	
	175°C	4911014	612026340	ZW44A	IG	1	500 1000	80 80	0	
HTSL PRE CONDITIONING	24HRS _125°C	4911014	612026340	ZW44A	IG	1	COMP	160	0	
	As specified	4911014	612026340	ZW44A	IG	1	COMP	5	0	
INTERNAL VISUAL	As specified	4911014	612026340	ZW44A	IG	1	COMP	5	0	

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PHYSICAL DIMENSIONS	As specified	4911014	612026340	ZW44A	IG	1	COMP	10	0
		4911014	612026341	ZW44A	IG	2	COMP	10	0
		4911014	612026342	ZW44A	IG	3	COMP	10	0
PRE CONDITIONING	24HRS _125°C	4911014	612026340	ZW44A	IG	1	COMP	240	0
		4911014	612026341	ZW44A	IG	2	COMP	240	0
		4911014	612026342	ZW44A	IG	3	COMP	240	0
	MSL3_30°C / 60%RH for 192 hrs	4911014	612026340	ZW44A	IG	1	COMP	240	0
		4911014	612026341	ZW44A	IG	2	COMP	240	0
		4911014	612026342	ZW44A	IG	3	COMP	240	0
PRESSURE COOKER TEST	121°C / 100%RH / 15psig	4911014	612026340	ZW44A	IG	1	168 288	80 80	0
		4911014	612026341	ZW44A	IG	2	168 288	80 80	0
		4911014	612026342	ZW44A	IG	3	168 288	80 80	0
	As specified	4911014	612026340	ZW44A	IG	1	COMP	3	0
		4911014	612026341	ZW44A	IG	2	COMP	3	0
		4911014	612026342	ZW44A	IG	3	COMP	3	0
TEMP CYCLE	C -65°C to 150°C	4911014	612026340	ZW44A	IG	1	500 1000	80 80	0
		4911014	612026341	ZW44A	IG	2	500 1000	80 80	0
		4911014	612026342	ZW44A	IG	3	500 1000	80 80	0
	As specified	3943111	612030359	ZW44A	IG	4	COMP	22	0
		4912700	612030361	ZW44A	IG	9	COMP	22	0
		4909679	612030360	ZW44A	IG	10	COMP	22	0
4939700		612030358	ZW44A	IG	12	COMP	22	0	
4915861		612030357	ZW44A	IG	13	COMP	22	0	
2025000		612030354	ZW44B	IG	14	COMP	22	0	
TIME ZERO CSAM	As specified	2025000	612030355	ZW44B	IG	15	COMP	22	0
		2025000	612030356	ZW44B	IG	16	COMP	22	0
		4911014	612026340	ZW44A	IG	1	COMP	18	0
		4911014	612026340	ZW44A	IG	1	COMP	15	0
		4911014	612026341	ZW44A	IG	2	COMP	15	0
		4911014	612026342	ZW44A	IG	3	COMP	15	0
TIN WHISKER TESTING	As specified	4911014	612026340	ZW44A	IG	1	COMP	18	0
X-RAY FA	As specified	4911014	612026340	ZW44A	IG	1	COMP	15	0
		4911014	612026341	ZW44A	IG	2	COMP	15	0
		4911014	612026342	ZW44A	IG	3	COMP	15	0

Reliability Tests Performed per Specification Requirement

Stress	Condition	Specification Reference
BALL BOND SHEAR	As specified	12-00292, AEC-Q100-001 / AEC-Q003 JESD22-B116 MIL-STD-883, MET 2011.9
BIASED HAST	130°C / 85%RH	25-00132, JESD22-A110 JESD22-A110, AEC-Q100, AEC-Q006
BOND STRENGTH	As specified	22-00113, AEC-Q100, MIL-STD-883 MET 2011
CONSTRUCTION ANALYSIS	As specified	25-20035
DIE SHEAR	As specified	12-00292, AEC-Q100 MIL-STD-883, MET 5005./2019/ TM 2027
DYE PENETRANT	As specified	25-20035, 12-00292
ESD (CDM) SENSITIVITY	500V/1,000V/1,250V	25-00020, JS-002 AEC-Q100, AEC-Q100-011
FINAL VISUAL INSPECTION	As specified	12-00292, 12-00103
GLUE ADHESION	As specified	JESD22-A111,001-04301,001-00129
HIGH TEMP STORAGE LIFE	150°C/175°C	25-00135, JESD22-A103, AEC-Q100 AEC-Q006
INTERNAL VISUAL	As specified	12-00292/ 001-64317/001-13598
PHYSICAL DIMENSIONS	As specified	25-00031, JESD22-B100, JESD22B-108 MIL-STD-883 MET 2016
PRE CONDITIONING	MSL3_30°C / 60%RH for 192 hrs	25-00090, JTD-020, JESD22-A113, AEC-Q100
PRESSURE COOKER TEST	121°C / 100%RH / 15psig	25-00131, AEC-Q100, JESD22-A102
SOLDERABILITY	As specified	25-00018, JESD22-B102, J-STD-002 AEC-Q100 MIL-STD-883 MET 2003.13
TEMP CYCLE	C -65°C to 150°C	25-00130, JESD22-A104, JESD47, AEC-Q100, AEC-Q006 MIL-STD-883 MET 1010 , MILPRF-38535
TIME ZERO CSAM	As specified	25-00104, AEC-Q100, AEC-Q006 (Cu-wire). J-STD-020E
X-RAY	As specified	MIL-STD-883 MET 2012; 12-00292

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