



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

PRODUCT INFORMATION NOTIFICATION

PIN: PIN145273

Date: March 13, 2014

Subject: Improvement of Cypress Minnesota Back-End-of-Line Integration for 130nm SONOS Product Families

To: PCN ADMINISTRATOR
CYPRESS PCN ADMIN
pcn_adm@cypress.com

Change Type: Minor

Description of Change:

Cypress announces the qualification of industry standard Back-End-of-Line (BEOL) integration for robust device performance on the 130nm SONOS process technology. This change aligns our internal Cypress Minnesota process, Titanium Tungsten (TiW) based metal stack, with the industry-wide Best Known Method Titanium Nitride (TiN) based metal stack.

Product datasheets remain the same and can be downloaded from the Cypress Website (www.cypress.com).

Benefit of Change:

This change will provide continuous improvement and alignment with industry standards.

Affected Part Numbers: 1005

Affected Parts: Please see attached Affected Parts List

Customer Part Numbers Affected:

Affected Parts: N/A

Qualification Status:

As per the Cypress specified list of changes, this change has been qualified through a series of tests identified in Qualification Test Plans (QTP) report No. 123907, 132301 and 132302 The QTP report can be found in the attachment to this notification or by visiting www.cypress.com, typing the QTP number in the keyword search window.

Approximate Implementation Date:

Effective with the date of this notification, the affected part numbers in the attached file will transition to the new BEOL integration process.

Anticipated Impact:

This process change will align the 130nm SONOS BEOL process to Industry best practices. The integration process is tuned to ensure that there are no electrical changes, and therefore no impact to product characteristics. Products manufactured with the new process are completely compatible with existing product from a functional, parametric, and quality performance perspective.

Cypress 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 product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

This is an information only announcement. 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
1	CY14101V-1XWI
2	CY14104V-1XW14I
3	CY14B064I-SFXI
4	CY14B064I-SFXIT
5	CY14B064PA-SFXI
6	CY14B064PA-SFXIT
7	CY14B101I-SFXI
8	CY14B101I-SFXIT
9	CY14B101J1-SXI
10	CY14B101J1-SXIT
11	CY14B101J2-SXI
12	CY14B101J2-SXIT
13	CY14B101KA-SP25XI
14	CY14B101KA-SP25XIT
15	CY14B101KA-SP45XI
16	CY14B101KA-SP45XIT
17	CY14B101KA-ZS25XI
18	CY14B101KA-ZS25XIT
19	CY14B101KA-ZS45XI
20	CY14B101KA-ZS45XIT
21	CY14B101LA-BA25XI
22	CY14B101LA-BA25XIT
23	CY14B101LA-BA45XI
24	CY14B101LA-BA45XIT
25	CY14B101LA-SP25XI
26	CY14B101LA-SP25XIT
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34	CY14B101LA-ZS20XIT
35	CY14B101LA-ZS25XI
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38	CY14B101LA-ZS45XIT
39	CY14B101NA-ZS25XI
40	CY14B101NA-ZS25XIT
41	CY14B101NA-ZS45XI
42	CY14B101NA-ZS45XIT
43	CY14B101PA-SFXI
44	CY14B101PA-SFXIT
45	CY14B101P-SFXI
46	CY14B101P-SFXIT
47	CY14B101Q1A-SXI
48	CY14B101Q1A-SXIT
49	CY14B101Q2A-SXI
50	CY14B101Q2A-SXIT
51	CY14B101Q2-LHXI
52	CY14B102NS-BA45XC
53	CY14B102NS-BA45XCT
54	CY14B104K-ZS25XI

55	CY14B104K-ZS25XIT
56	CY14B104K-ZS45XI
57	CY14B104K-ZS45XIT
58	CY14B104LA-BA25XI
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65	CY14B104LA-ZS25XIT
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69	CY14B104M-ZSP25XIT
70	CY14B104M-ZSP45XI
71	CY14B104M-ZSP45XIT
72	CY14B104NA-BA20XI
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74	CY14B104NA-BA25I
75	CY14B104NA-BA25IT
76	CY14B104NA-BA25XI
77	CY14B104NA-BA25XIT
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128	CY14B256LA-SZ45XI
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130	CY14B256LA-ZS25XI
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132	CY14B256PA-SFXI
133	CY14B256PA-SFXIT
134	CY14B256Q1A-SXI
135	CY14B256Q1A-SXIT
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137	CY14B256Q2A-SXIT
138	CY14B512I-SFXI
139	CY14B512I-SFXIT
140	CY14B512J2-SXI
141	CY14B512J2-SXIT
142	CY14B512PA-SFXI
143	CY14B512PA-SFXIT
144	CY14B512Q1A-SXI
145	CY14B512Q1A-SXIT
146	CY14B512Q2A-SXI
147	CY14B512Q2A-SXIT
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159	CY14E256LA-SZ45XQT
160	CY14E256Q1A-SXI
161	CY14E256Q1A-SXIT
162	CY14E256Q2A-SXI
163	CY14E256Q2A-SXIT
164	CY14E256Q5A-SXQ

165	CY14E256Q5A-SXQT
166	CY14E512Q1A-SXI
167	CY14E512Q1A-SXIT
168	CY14MB064J1A-SXI
169	CY14MB064J1A-SXIT
170	CY14MB064J1-SXI
171	CY14MB064J1-SXIT
172	CY14MB064J2A-SXI
173	CY14MB064J2A-SXIT
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187	CY14MB256J1-SXIT
188	CY14MB256J2-SXI
189	CY14MB256J2-SXIT
190	CY14ME064J1A-SXI
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193	CY14ME064J1-SXIT
194	CY14ME064J2A-SXI
195	CY14ME064J2A-SXIT
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203	CY14ME064Q1B-SXIT
204	CY14ME064Q2A-SXI
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206	CY14ME064Q2A-SXQ
207	CY14ME064Q2A-SXQT
208	CY14ME064Q2B-SXI
209	CY14ME064Q2B-SXIT
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211	CY14ME256J2-SXIT
212	CY14U256LA-BA35XI
213	CY14U256LA-BA35XIT
214	CY14V101LA-BA25XI
215	CY14V101LA-BA25XIT
216	CY14V101LA-BA45XI
217	CY14V101LA-BA45XIT
218	CY14V101NA-BA25XI
219	CY14V101NA-BA25XIT

220	CY14V101NA-BA45XI
221	CY14V101NA-BA45XIT
222	CY14V101Q3-SFXI
223	CY14V104LA-BA25XI
224	CY14V104LA-BA25XIT
225	CY14V104LA-BA45XI
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232	CY14V256LA-BA35XIT
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234	CY2CP1504ZXCT
235	CY2CP1504ZXI
236	CY2CP1504ZXIT
237	CY2DL1504ZXC
238	CY2DL1504ZXCT
239	CY2DL1504ZXI
240	CY2DL1504ZXIT
241	CY2DL1510AZC
242	CY2DL1510AZCT
243	CY2DL1510AZI
244	CY2DL1510AZIT
245	CY2DL15110AZI
246	CY2DL15110AZIT
247	CY2DM1502ZXI
248	CY2DM1502ZXIT
249	CY2DP1502SXI
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251	CY2DP1502ZXI
252	CY2DP1502ZXIT
253	CY2DP1504ZXC
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256	CY2DP1504ZXIT
257	CY2DP1510AXC
258	CY2DP1510AXCT
259	CY2DP1510AXI
260	CY2DP1510AXIT
261	CY7C60413-16LKXC
262	CY7C60413-16LKXCT
263	CY7C60445-32LQXC
264	CY7C60445-32LQXCT
265	CY7C60445-3X14C
266	CY7C60455-3X14C
267	CY7C60455-48LTXC
268	CY7C60455-48LTXCT
269	CY7C60456-48LTXC
270	CY7C60456-48LTXCT
271	CY7C64315-16LKXC
272	CY7C64315-16LKXCT
273	CY7C64315-3X14C
274	CY7C64316-16LKXC

275	CY7C64316-16LKXCT
276	CY7C64316-WAFC
277	CY7C64343-32LQXC
278	CY7C64343-32LQXCT
279	CY7C64345-32LQXC
280	CY7C64345-32LQXCT
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282	CY7C64355-48LTXCT
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286	CY7C65211-24LTXIT
287	CY7C65213-28PVXI
288	CY7C65213-32LTXI
289	CY7C65213-32LTXIT
290	CY7C65215-32LTXI
291	CY7C65215-32LTXIT
292	CY7C69356-48LTXC
293	CY8C20045-24LKXI
294	CY8C20045-24LKXIT
295	CY8C20055-24LKXI
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304	CY8C20075-24LKXIT
305	CY8C20236A-24LKXA
306	CY8C20236A-24LKXAT
307	CY8C20236A-24LKXI
308	CY8C20236A-24LKXIT
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312	CY8C20246A-24LKXI
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325	CY8C20336H-24LQXIT
326	CY8C20337-24LQXI
327	CY8C20337-24LQXIT
328	CY8C20346A-24LQXI
329	CY8C20346A-24LQXIT

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332	CY8C20347-24LQXIT
333	CY8C20347S-24LQXI
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366	CY8C20566A-24PVXIT
367	CY8C20636A-24LQXI
368	CY8C20636A-24LQXIT
369	CY8C20636A-24LTXI
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371	CY8C20636AN-24LTXI
372	CY8C20636AN-24LTXIT
373	CY8C20637-24LQXI
374	CY8C20637-24LQXIT
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388	CY8C20666A-24LTXIT
389	CY8C20666AS-24LQXI
390	CY8C20666AS-24LQXIT
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393	CY8C20667S-24LQXI
394	CY8C20667S-24LQXIT
395	CY8C20767-24FDXCT
396	CY8C240093-24LTXI
397	CY8C24093-24LKXI
398	CY8C24193-24LQXI
399	CY8C24293-24LQXI
400	CY8C24393-24LQXI
401	CY8C24493-24LTXI
402	CY8C24693-24LQXI
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404	CY8C3244AXI-153
405	CY8C3244AXI-153T
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408	CY8C3244LTI-130
409	CY8C3244LTI-130T
410	CY8C3244PVI-133
411	CY8C3244PVI-133T
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415	CY8C3245AXI-158T
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417	CY8C3245AXI-166T
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425	CY8C3245PVI-134T
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431	CY8C3246AXI-131T
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433	CY8C3246AXI-138T
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435	CY8C3246LTI-125T
436	CY8C3246LTI-128
437	CY8C3246LTI-128T
438	CY8C3246LTI-149
439	CY8C3246LTI-149T

440	CY8C3246LTI-162
441	CY8C3246LTI-162T
442	CY8C3246PVI-122
443	CY8C3246PVI-122T
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445	CY8C3246PVI-147T
446	CY8C3444AXA-116
447	CY8C3444LTI-110
448	CY8C3444LTI-110T
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450	CY8C3444LTI-119T
451	CY8C3444PVI-100
452	CY8C3444PVI-100T
453	CY8C3445AXA-104
454	CY8C3445AXA-108
455	CY8C3445AXA-181
456	CY8C3445AXE-097
457	CY8C3445AXE-107
458	CY8C3445AXE-181
459	CY8C3445AXI-104
460	CY8C3445AXI-104T
461	CY8C3445AXI-108
462	CY8C3445AXI-108T
463	CY8C3445LTI-078
464	CY8C3445LTI-078T
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474	CY8C3446AXA-105
475	CY8C3446AXE-099
476	CY8C3446AXE-115
477	CY8C3446AXI-099
478	CY8C3446AXI-099T
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480	CY8C3446AXI-105T
481	CY8C3446LTI-073
482	CY8C3446LTI-073T
483	CY8C3446LTI-074
484	CY8C3446LTI-074T
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486	CY8C3446LTI-083T
487	CY8C3446LTI-085
488	CY8C3446LTI-085T
489	CY8C3446PVI-076
490	CY8C3446PVI-076T
491	CY8C3446PVI-102
492	CY8C3446PVI-102T
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494	CY8C3646AXE-170

495	CY8C3646AXE-178
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497	CY8C3665AXA-016
498	CY8C3665AXI-198
499	CY8C3665AXI-198T
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535	CY8C3865LTI-014
536	CY8C3865LTI-014T
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538	CY8C3865LTI-205T
539	CY8C3866AXA-035
540	CY8C3866AXA-038
541	CY8C3866AXA-039
542	CY8C3866AXA-040
543	CY8C3866AXA-055
544	CY8C3866AXI-035
545	CY8C3866AXI-035T
546	CY8C3866AXI-039
547	CY8C3866AXI-039T
548	CY8C3866AXI-040
549	CY8C3866AXI-040T

550	CY8C3866AXI-206
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552	CY8C3866AXI-208
553	CY8C3866AXI-208T
554	CY8C3866FNI-210T
555	CY8C3866LTI-030
556	CY8C3866LTI-030T
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558	CY8C3866LTI-067T
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560	CY8C3866LTI-068T
561	CY8C3866LTI-207
562	CY8C3866LTI-207T
563	CY8C3866LTI-209
564	CY8C3866LTI-209T
565	CY8C3866PVI-021
566	CY8C3866PVI-021T
567	CY8C3866PVI-070
568	CY8C3866PVI-070T
569	CY8C3MFIDOCK-125
570	CY8C3MFIDOCK-128
571	CY8C3MFIDOCK-187
572	CY8C4124LQI-443
573	CY8C4124PVI-442
574	CY8C4125AXI-483
575	CY8C4125LQI-483
576	CY8C4125PVI-482
577	CY8C4244PVI-442
578	CY8C4245AXI-483
579	CY8C4245LQI-483
580	CY8C4245PVI-482
581	CY8C5267AXI-LP051
582	CY8C5267LTI-LP089
583	CY8C5268AXI-LP047
584	CY8C5268LTI-LP030
585	CY8C5467AXI-LP108
586	CY8C5467LTI-LP003
587	CY8C5468AXI-LP106
588	CY8C5468LTI-LP026
589	CY8C5666AXI-LP004
590	CY8C5666LTI-LP005
591	CY8C5667AXI-LP006
592	CY8C5667AXI-LP040
593	CY8C5667LTI-LP009
594	CY8C5667LTI-LP041
595	CY8C5668AXI-LP010
596	CY8C5668AXI-LP013
597	CY8C5668AXI-LP034
598	CY8C5668LTI-LP014
599	CY8C5866AXI-LP020
600	CY8C5866AXI-LP021
601	CY8C5866LTI-LP022
602	CY8C5867AXI-LP024
603	CY8C5867LTI-LP025
604	CY8C5867LTI-LP028

605	CY8C5868AXI-LP032
606	CY8C5868AXI-LP035
607	CY8C5868LTI-LP038
608	CY8C5868LTI-LP039
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611	CY8CMBR2016-24LQXI
612	CY8CMBR2016-24LQXIT
613	CY8CMBR2044-24LKXI
614	CY8CMBR2044-24LKXIT
615	CY8CMBR2110-24LQXI
616	CY8CMBR2110-24LQXIT
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618	CY8CTMA1036BUI-12
619	CY8CTMA1036BUI-12T
620	CY8CTMA1036BUI-13
621	CY8CTMA1036BUI-13T
622	CY8CTMA1036BUI-23
623	CY8CTMA1036BUI-23T
624	CY8CTMA1036BUI-33
625	CY8CTMA1036BUI-33T
626	CY8CTMA395-LTI-01
627	CY8CTMA400-44LQI
628	CY8CTMA400-44LQIT
629	CY8CTMA400-48LQI
630	CY8CTMA400-60BUI
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645	CY8CTMA445-48LQIT
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648	CY8CTMA463-44LQI
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654	CY8CTMA463-56LQIT
655	CY8CTMA463-60BUI
656	CY8CTMA463-60BUIT
657	CY8CTMA467-44LQI
658	CY8CTMA500-48LQI
659	CY8CTMA500-48LQIT

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696	CY8CTMA768BUI-33T
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724	CY8CTMG201A-48LTXI
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727	CY8CTMG240-LQI-01T
728	CY8CTMG240-LTI-01
729	CY8CTMG240-LTI-01T
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731	CY8CTST200A-16LGXIT
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733	CY8CTST200A-24LQXIT
734	CY8CTST200A-32LQXI
735	CY8CTST200A-32LQXIT
736	CY8CTST241-LQI-01
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738	CY8CTST241-LTI-01
739	CY8CTST241-LTI-01T
740	CY8CTST242-LQI-01
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743	CYATB108LD-ZS45XI
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745	CYONSFN3050-XWTH
746	CYTMA445-44LQI28AA
747	CYTMA445-44LQI28AAT
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749	CYTMA445-44LQI33AAT
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759	CYTMA445-44LQI33ZZT
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773	CYTMA545-48LQI36ZZA
774	CYTMA545-48LQI36ZZAT
775	CYTMA545-48LQI36ZZT
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781	CYTMA568-70BUI58ABT
782	CYTMA568-70BUI58AD
783	CYTMA568-70BUI58ADT
784	CYTMA568-70BUI58ZZ
785	CYTMA568-70BUI58ZZT
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787	CG7273AMT
788	CG7285AT
789	CG7299AT
790	CG7299ATT
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793	CG7434AM
794	CG7471AM
795	CG7471AMT
796	CG7491AA
797	CG7496AA
798	CG7496AAT
799	CG7498AA
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801	CG7499AA
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804	CG7500AAT
805	CG7501AA
806	CG7501AAT
807	CG7503AM
808	CG7504AM
809	CG7526AM
810	CG7526AMT
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812	CG7528AMT
813	CG7539AM
814	CG7539AMT
815	CG7554AA
816	CG7554AAT
817	CG7561AA
818	CG7561AAT
819	CG7574AM
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821	CG7575AM
822	CG7575AMT
823	CG7579AA
824	CG7579AAT

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827	CG7595AS
828	CG7596AS
829	CG7602AA
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831	CG7605AM
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833	CG7607AA
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836	CG7608AAT
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839	CG7628AA
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848	CG7662AAT
849	CG7672AA
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856	CG7693AA
857	CG7693AAT
858	CG7702AA
859	CG7718AM
860	CG7718AMT
861	CG7720AM
862	CG7720AMT
863	CG7726AA
864	CG7726AAT
865	CG7745AA
866	CG7745AAT
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869	CG7776AM
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872	CG7784AAT
873	CG7790AM
874	CG7790AMT
875	CG7810AA
876	CG7810AAT
877	CG7832AA
878	CG7832AAT
879	CG7833AA

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907	CG8017AAT
908	CG8018AA
909	CG8018AAT
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916	CP7408AT
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918	CP7437AT
919	CP7437ATT
920	CP7458BT
921	CP7458BTT
922	CP7458CT
923	CP7458CTT
924	CP7463CT
925	CP7463CTT
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