

PRODUCT ADVISORY NOTICE

KEEPING YOU INFORMED OF PRODUCT CHANGES

To: All Customers, Sales Representatives and Distributors

Date: April 21, 2022

Subject: MOSFET Alternative for CANBUS Products

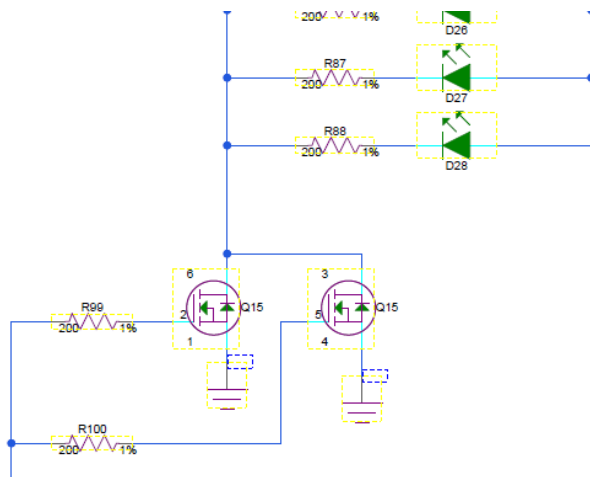
This Product Advisory Notice is to alert you that Grayhill will be implementing an alternate MOSFET Mfg PN on certain CANBUS products specified in this PAN. **Please forward this notification to the appropriate person(s) in your organization.**

Description of Change

Due to supply chain disruptions with Diodes, Inc., the alternate part number Nexperia 2N7002PS/ZLX described below in place of the Diodes Inc. 2N7002DW-7-F. These devices are drop in replacements with subtle differences in the datasheets. The alternate 2N7002PS has a slightly lower R_{DS(on)} and thus a slightly higher current and power rating. The Grayhill designs use these transistors as a switch, either on or off. Most designs use these transistors to turn on and off the backlight LEDs or the digital outputs.

Grayhill has reworked a few different PCBs with the alternate and have verified basic functionality. EMC emissions and immunity testing will not be performed as it is deemed low risk in the applications.

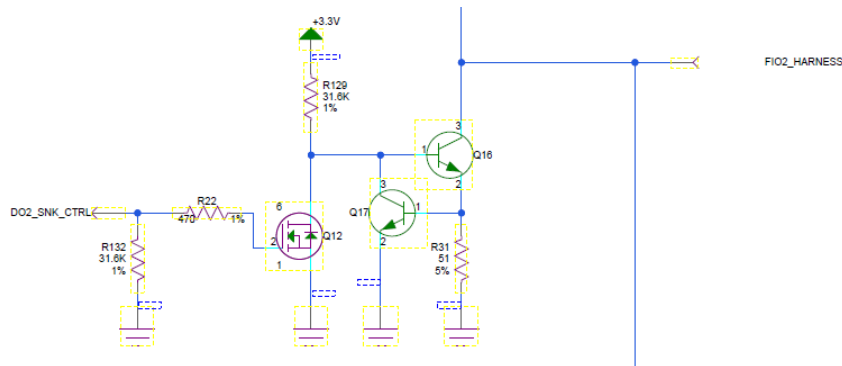
Q15 used as Backlight Control:



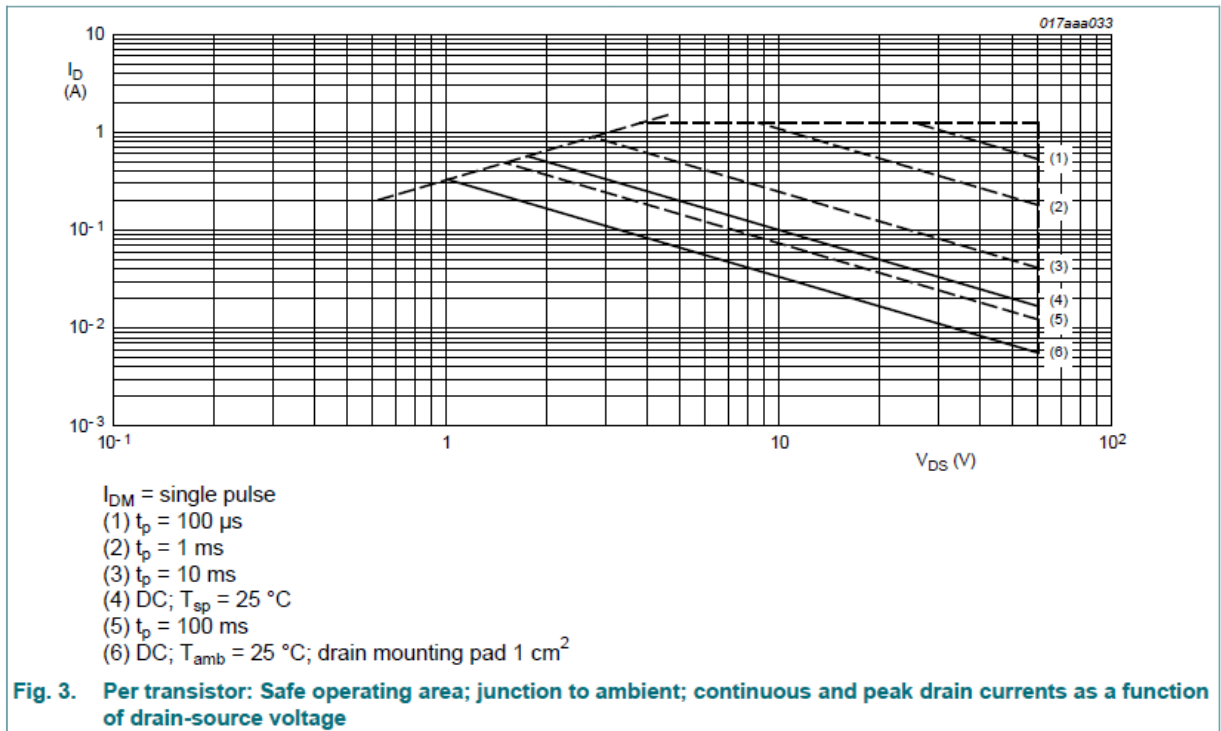
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Q12 used a digital output enable disable:



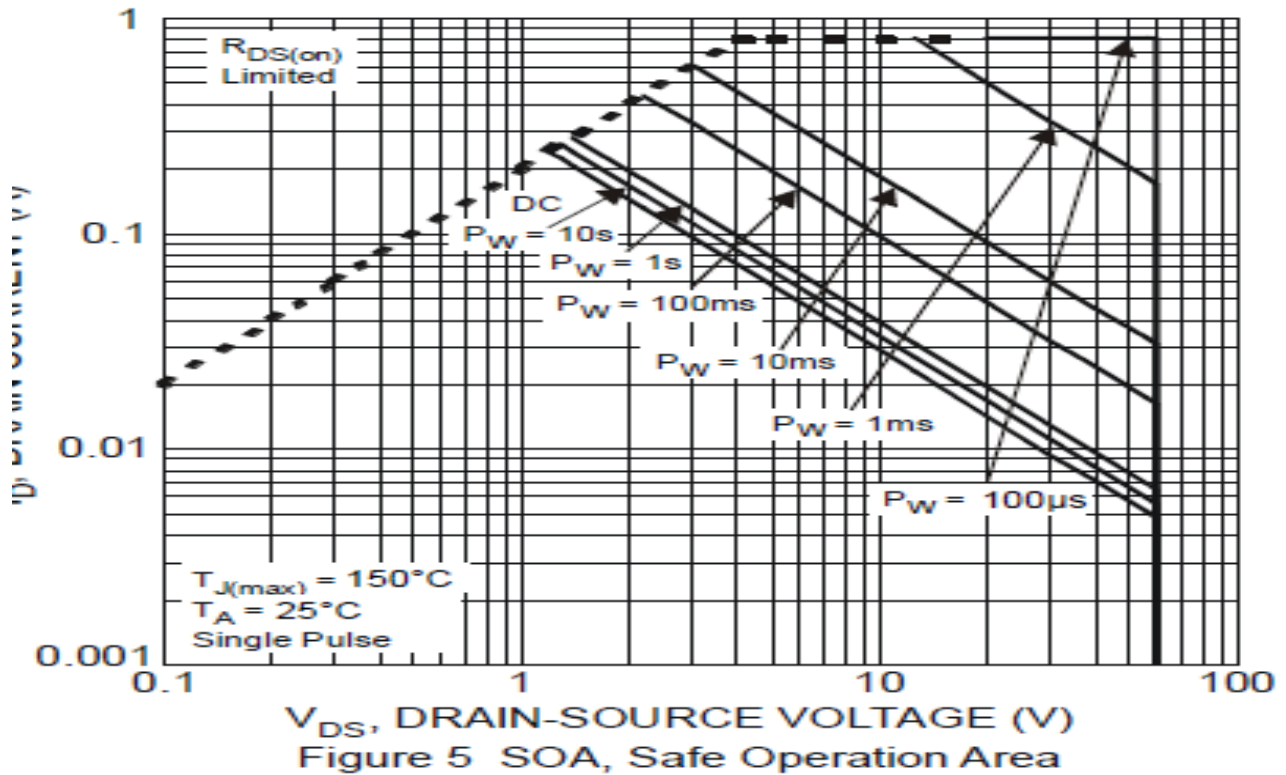
Alternate 2N7002PS Safe Operating Area:



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Original 2N7002DW Safe Operating Area:



[2N7002DW-7-F Datasheet](#)

[2N7002PS/ZLX Datasheet](#)

Reason for Change

Extended leadtime for original Diodes Inc. part.

Effective Date

Immediately

Actions Required

None.

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Part Numbers Affected

The following Grayhill Part Numbers are affected by this Product Advisory Notice

3AYY1007-0	3AYY1131-2	3DYY1005-B08	3J0115-G2-C3AG	3J2115-G2-N3AG	3K008-G2-2RN3AG
3AYY1007-1	3AYY1132-1	3DYY1005-B09	3J0115-G2-C3AW	3J2115-G2-N3AW	3K008-G2-2RN3AW
3AYY1007-2	3AYY1133-1	3DYY1005-B0C	3J0115-G2-N3AG	3J2205-G2-C3AG	3K008-G2-4RC3AG
3AYY1015-1	3AYY1134-1	3DYY1005-B0D	3J0115-G2-N3AW	3J2205-G2-C3AW	3K008-G2-4RC3AW
3AYY1015-10	3AYY5289-10	3DYY1005-B0E	3J0205-G2-C3AG	3J2205-G2-N3AG	3K008-G2-4RN3AG
3AYY1015-2	3AYY5289-2	3DYY1005-B0F	3J0205-G2-C3AW	3J2205-G2-N3AW	3K008-G2-4RN3AW
3AYY1015-3	3AYY5289-4	3DYY1005-B11	3J0205-G2-N3AG	3J2215-G2-C3AG	3K012-G2-4RC3AG
3AYY1015-4	3AYY5289-7	3DYY1005-B12	3J0205-G2-N3AW	3J2215-G2-C3AW	3K012-G2-4RC3AW
3AYY1015-5	3AYY5289-8	3DYY1005-B13	3J0215-G2-C3AG	3J2215-G2-N3AG	3K012-G2-4RN3AG
3AYY1015-6	3AYY5289-9	3DYY1005-B14	3J0215-G2-C3AW	3J2215-G2-N3AW	3K012-G2-4RN3AW
3AYY1015-7	3D101DEV-200	3DYY1005-B15	3J0215-G2-N3AG	3J2305-G2-C3AG	3K015-G2-3RC3AG
3AYY1015-8	3D101VT-200	3DYY1005-B16	3J0215-G2-N3AW	3J2305-G2-C3AW	3K015-G2-3RC3AW
3AYY1015-9	3D101VX-200	3DYY1005-B17	3J0305-G2-C3AG	3J2305-G2-N3AG	3K015-G2-3RN3AG
3AYY1016-1	3D2104DEV-100	3DYY1018-2	3J0305-G2-C3AW	3J2305-G2-N3AW	3K015-G2-3RN3AW
3AYY1016-101	3D2104DEV-200	3DYY1028-1	3J0305-G2-N3AG	3JYY1015-G2-200	3K106-G2-2RC3AG
3AYY1016-101S	3D2104TK-100	3DYY1028-PI	3J0305-G2-N3AW	3JYY1015-G2-205	3K106-G2-2RC3AW
3AYY1016-2	3D2104TK-200	3DYY2104C-247	3J1005-G2-C3AG	3JYY1015-G2-210	3K106-G2-2RN3AG
3AYY1016-2S	3D2104TK-200-E0	3DYY2104C-252	3J1005-G2-C3AW	3JYY1015-G2-211	3K106-G2-2RN3AW
3AYY1016-4	3D2104XK-100	3DYY2104C-254	3J1005-G2-N3AG	3JYY1015-G2-212	3K108-G2-2RC3AG
3AYY1022-1	3D2104XK-200	3DYY2104C-269	3J1005-G2-N3AW	3JYY1015-G2-215	3K108-G2-2RC3AW
3AYY1022-2	3D50DEV-100	3DYY2104C-270	3J1015-G2-C3AG	3JYY1015-G2-217	3K108-G2-2RN3AG
3AYY1022-3	3D50DEV-100-C	3DYY2104C-287	3J1015-G2-C3AW	3JYY1015-G2-219	3K108-G2-2RN3AW
3AYY1022-4	3D50VT-100	3DYY50C-247	3J1015-G2-N3AG	3JYY1015-G2-220	3K108-G2-4RC3AG
3AYY1080-2	3D50VT-100-C	3DYY50C-260	3J1015-G2-N3AW	3JYY1015-G2-222	3K108-G2-4RC3AW
3AYY1080-3	3D50VT-101	3DYY50C-263	3J1115-G2-C3AG	3JYY1024-1	3K108-G2-4RN3AG
3AYY1080-4	3D50VT-200	3DYY50C-281	3J1115-G2-C3AW	3JYY1024-4	3K108-G2-4RN3AW
3AYY1085-1	3D50VT-200-C	3DYY50C-304	3J1115-G2-N3AG	3JYY1024-5	3K112-2G-4RC3AW
3AYY1085-2	3D50VX-100	3DYY70C-255	3J1115-G2-N3AW	3JYY1025-1	3K112-G2-4RC3AG
3AYY1087-001	3D50VX-100-C	3DYY70C-257	3J1205-G2-C3AG	3JYY1025-2	3K112-G2-4RC3AW
3AYY1087-002	3D50VX-200	3DYY70C-258	3J1205-G2-C3AW	3JYY1028-1	3K112-G2-4RN3AG
3AYY1087-003	3D50VX-200-C	3DYY70C-259	3J1205-G2-N3AG	3JYY1028-2	3K112-G2-4RN3AW
3AYY1087-004	3D70DEV-100	3DYY70C-261	3J1205-G2-N3AW	3JYY1028-3	3K115-G2-3RC3AG
3AYY1087-005	3D70DEV-100-C	3DYY70C-263	3J1215-G2-C3AG	3JYY1028-4	3K115-G2-3RC3AW
3AYY1087-1	3D70DEV-200	3DYY70C-266	3J1215-G2-C3AW	3JYY1028-5	3K115-G2-3RN3AG
3AYY1091-1	3D70VT-100	3DYY70C-273	3J1215-G2-N3AG	3JYY1028-6	3K115-G2-3RN3AW
3AYY1092-1	3D70VT-100-C	3DYY70C-290	3J1215-G2-N3AW	3JYY1028-7	3K206-G2-2RC3AG
3AYY1094-1	3D70VT-200	3DYY70C-294	3J1305-G2-C3AG	3JYY1115-G2-195	3K206-G2-2RC3AW
3AYY1096-1	3D70VT-200-C	3DYY70C-297	3J1305-G2-C3AW	3JYY1115-G2-229	3K206-G2-2RN3AG
3AYY1096-2	3D70VT-200-E0	3DYY70C-302	3J1305-G2-N3AG	3JYY1115-G2-232	3K206-G2-2RN3AW
3AYY1100-1	3D70VX-100	3DYY70C-305	3J1305-G2-N3AW	3JYY1215-G2-206	3K208-G2-2RC3AG
3AYY1102-1	3D70VX-100-C	3J0005-G2-C3AG	3J2005-G2-C3AG	3JYY1215-G2-208	3K208-G2-2RC3AW
3AYY1102-2	3D70VX-100-E0	3J0005-G2-C3AW	3J2005-G2-C3AW	3JYY1215-G2-209	3K208-G2-2RN3AG
3AYY1114-1	3D70VX-200	3J0005-G2-C3GG	3J2005-G2-N3AG	3JYY1215-G2-218	3K208-G2-2RN3AW
3AYY1114-2	3D70VX-200-C	3J0005-G2-N3AG	3J2005-G2-N3AW	3JYY1215-G2-221	3K208-G2-4RC3AG
3AYY1117-1	3D70VX-200-C-E0	3J0005-G2-N3AW	3J2015-G2-C3AG	3K006-G2-2RC3AG	3K208-G2-4RC3AW
3AYY1118-1	3D70VX-200-E0	3J0005-G2-N3GG	3J2015-G2-C3AW	3K006-G2-2RC3AW	3K208-G2-4RN3AG
3AYY1119-1	3DYY1005-1	3J0015-G2-C3AG	3J2015-G2-N3AG	3K006-G2-2RN3AG	3K208-G2-4RN3AW
3AYY1129-001	3DYY1005-A19	3J0015-G2-C3AW	3J2015-G2-N3AW	3K006-G2-2RN3AW	3K212-G2-4RC3AW
3AYY1131-1	3DYY1005-B05	3J0015-G2-N3AG	3J2115-G2-C3AG	3K008-G2-2RC3AG	3K212-G2-4RN3AG
3AYY1131-1	3DYY1005-B07	3J0015-G2-N3AW	3J2115-G2-C3AW	3K008-G2-2RC3AW	3K212-G2-4RN3AW



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3K215-G2-3RC3AW	3KYY1106-G2-680-2	3KYY1129-201	3KYY1161-000	3KYY1182-138-15C	3KYY1183-125
3K215-G2-3RN3AG	3KYY1106-G2-681	3KYY1129-202	3KYY1161-101	3KYY1182-139-16C	3KYY1183-129
3K215-G2-3RN3AW	3KYY1106-G2-681-2	3KYY1129-203	3KYY1161-102	3KYY1182-139-1C	3KYY1183-130-16C
3KYY1008-G2-238	3KYY1106-G2-692	3KYY1129-204	3KYY1161-103	3KYY1182-140	3KYY1183-131-16C
3KYY1008-G2-584	3KYY1106-G2-726	3KYY1133-1	3KYY1161-104	3KYY1182-141	3KYY1183-132-16C
3KYY1008-G2-613	3KYY1106-G2-750	3KYY1133-2	3KYY1161-105	3KYY1182-142	3KYY1183-133-16C
3KYY1008-G2-614	3KYY1106G2-750N	3KYY1133-901	3KYY1161-106	3KYY1182-143-16C	3KYY1183-134-16C
3KYY1008-G2-615	3KYY1106-G2-786	3KYY1133-902	3KYY1161-108	3KYY1182-144-16C	3KYY1183-135
3KYY1008-G2-616	3KYY1106-G2-808-1	3KYY1144-1	3KYY1161-110	3KYY1182-145	3KYY1183-137
3KYY1008-G2-617	3KYY1106-G2-808-2	3KYY1144-2	3KYY1161-111	3KYY1182-146	3KYY1183-138
3KYY1008-G2-618	3KYY1106-G2-811-1	3KYY1144-3	3KYY1161-209	3KYY1182-147	3KYY1183-143-16C
3KYY1008-G2-619	3KYY1106-G2-811-2	3KYY1145-1	3KYY1162-107	3KYY1182-148	3KYY1188-101
3KYY1008-G2-620	3KYY1106-G2-811-3	3KYY1154-100	3KYY1162-110	3KYY1182-153	3KYY1188-102
3KYY1008-G2-655	3KYY1106-G2-811-4	3KYY1154-103	3KYY1162-111	3KYY1182-154	3KYY1188-201
3KYY1008-G2-672	3KYY1106-G2-811-5	3KYY1154-104	3KYY1162-112	3KYY1182-155	3KYY1196-1
3KYY1008-G2-697	3KYY1106-G2-811-6	3KYY1154-106	3KYY1162-114	3KYY1182-156	3KYY1196-2
3KYY1008-G2-698	3KYY1106-G2-822N	3KYY1154-108	3KYY1162-115	3KYY1182-157	3KYY1197-1
3KYY1008-G2-699	3KYY1106-G2-843-1	3KYY1154-109	3KYY1162-401	3KYY1182-158	3KYY1197-1
3KYY1008-G2-707	3KYY1106-G2-843-2	3KYY1154-112	3KYY1162-402	3KYY1182-159-16C	3KYY1198-1
3KYY1008-G2-708	3KYY1108-G2-621	3KYY1154-113	3KYY1162-404	3KYY1182-160-16C	3KYY1198-2
3KYY1008-G2-709	3KYY1108-G2-654	3KYY1154-114	3KYY1162-405	3KYY1182-161-16C	3KYY1198-3
3KYY1008-G2-749	3KYY1108-G2-658	3KYY1154-117	3KYY1162-406	3KYY1182-162-16C	3KYY1198-4
3KYY1008G2-749N	3KYY1108-G2-695	3KYY1154-118	3KYY1162-408	3KYY1182-163	93YY5243-116
3KYY1008-G2-783	3KYY1108-G2-696	3KYY1154-119	3KYY1162-409	3KYY1182-164	93YY5243-226
3KYY1008-G2-785	3KYY1108-G2-723	3KYY1154-120	3KYY1162-413	3KYY1182-166	
3KYY1008-G2-794	3KYY1108-G2-724	3KYY1154-121	3KYY1162-417	3KYY1182-167-16C	
3KYY1008-G2-798	3KYY1108-G2-727	3KYY1154-125	3KYY1162-418	3KYY1182-168-16C	
3KYY1008-G2-821N-1	3KYY1108-G2-768	3KYY1154-407	3KYY1162-419	3KYY1182-169	
3KYY1008-G2-821N-2	3KYY1108-G2-769	3KYY1154-410R	3KYY1162-420	3KYY1182-170	
3KYY1008-G2-824	3KYY1108-G2-777	3KYY1154-411R	3KYY1182-1	3KYY1182-181	
3KYY1012-G2-470	3KYY1108-G2-780	3KYY1154-415	3KYY1182-107	3KYY1182-184-16C	
3KYY1012-G2-583	3KYY1108-G2-808	3KYY1154-416	3KYY1182-108	3KYY1182-185-16C	
3KYY1012-G2-627	3KYY1108-G2-827	3KYY1154-422	3KYY1182-109	3KYY1182-186-16C	
3KYY1012-G2-657	3KYY1115-G2-628	3KYY1154-423	3KYY1182-110	3KYY1182-2	
3KYY1012-G2-668	3KYY1115-G2-629	3KYY1154-424	3KYY1182-111	3KYY1183-1	
3KYY1012-G2-693	3KYY1115-G2-631	3KYY1155-004R	3KYY1182-112	3KYY1183-106	
3KYY1012-G2-706	3KYY1115-G2-659	3KYY1155-005	3KYY1182-113	3KYY1183-107	
3KYY1012-G2-734	3KYY1115G2728-1	3KYY1155-008R	3KYY1182-114	3KYY1183-108	
3KYY1012-G2-748	3KYY1115G2728-2	3KYY1155-013	3KYY1182-115	3KYY1183-109-1C	
3KYY1012G2-748N	3KYY1115-G2-766	3KYY1155-014	3KYY1182-116	3KYY1183-110	
3KYY1012-G2-751	3KYY1115-G2-767	3KYY1155-015	3KYY1182-117	3KYY1183-113-16C	
3KYY1012-G2-828	3KYY1115G2797-1	3KYY1155-019R	3KYY1182-118	3KYY1183-114-16C	
3KYY1012-G2-841	3KYY1115G2797-2	3KYY1155-101	3KYY1182-119	3KYY1183-115-16C	
3KYY1106-G2-648	3KYY1115-G2-807	3KYY1155-102	3KYY1182-120	3KYY1183-116-16C	
3KYY1106G2-648N	3KYY1115-G2-815	3KYY1155-109	3KYY1182-121	3KYY1183-117	
3KYY1106-G2-656	3KYY1115-G2-829	3KYY1155-112	3KYY1182-122	3KYY1183-118	
3KYY1106-G2-666	3KYY1129-001	3KYY1155-120	3KYY1182-128	3KYY1183-119	
3KYY1106-G2-667	3KYY1129-002	3KYY1155-203	3KYY1182-129	3KYY1183-120	
3KYY1106-G2-670	3KYY1129-003	3KYY1155-210	3KYY1182-133	3KYY1183-123-16C	
3KYY1106-G2-680	3KYY1129-1	3KYY1155-211	3KYY1182-137	3KYY1183-124	

