

Light is OSRAM

01.09.2021

OS-IN-2021-020

Forward Voltage adaptation in datasheet to production distribution for OSOLON Compact PL, OSOLON Submount PL and OSOLON Black Flat S family

Objective	Update of forward voltage in datasheet in compliance with production data for OSOLON Compact PL, OSOLON Submount PL and OSOLON Black Flat S family
Products affected	KW CELNM2.TK, KW2 CFLNM2.TK, KW3 CGLNM2.TK, KW4 CHLNM2.TK KW C2L5L2.TK, KW C3L5L2.TK KW HHL532.TK, KW2 HIL532.TK
Background	Adapt the value of the typical forward voltage in the datasheet to the value measured on production material. Regular testing of V_F typ. value shows different V_F values compared to datasheet
Realization	Please refer to 2_CIP_OS-IN-2021-020 for details
Time Schedule	Updated datasheets are available
Assessment	No change in fit, form, function and reliability

Please direct your inquiry to your local Sales office.

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OS-IN-2021-020

Forward Voltage adaptation in datasheet to production distribution for OSOLON Compact PL, OSOLON Submount PL and OSOLON Black Flat S family

Customer information package

OS QM CQM A | 01.09.2021

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Up-dated Datasheet Version:

regular testing of V_F typ. value shows different V_F typ. values compared to datasheet

Product	Product Family	Amount of chip	Data sheet version before Infonote	Data sheet version after Infonote	V_F typ. datasheet before Infonote	V_F typ. datasheet after Infonote
KW CELNM2.TK	Compact PL	1	1.1	1.2	3.00	3.15
KW HHL532.TK	Black Flat S	1	1.0	1.1	3.00	3.15
KW2 CFLNM2.TK	Compact PL	2	1.0	1.1	6.00	6.30
KW2 HIL532.TK	Black Flat S	2	1.1	1.2	6.00	6.30
KW C2L5L2.TK	Submount PL	2	1.0	1.1	6.20	6.50
KW3 CGLNM2.TK	Compact PL	3	1.0	1.1	9.00	9.45
KW C3L5L2.TK	Submount PL	3	1.1	1.2	9.20	9.65
KW4 CHLNM2.TK	Compact PL	4	1.0	1.1	12.00	12.60

For additional information regarding the most important changes please refer to the next pages

Note: Latest version of data sheet is accessible on [ams-OSRAM homepage](https://www.ams-osram.com)

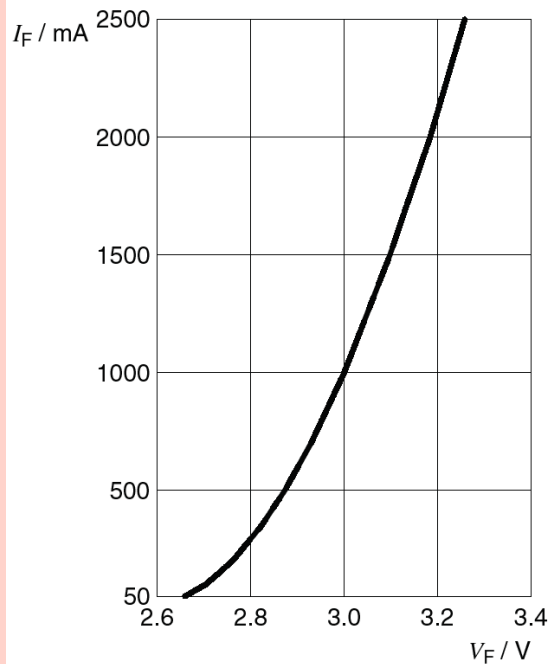
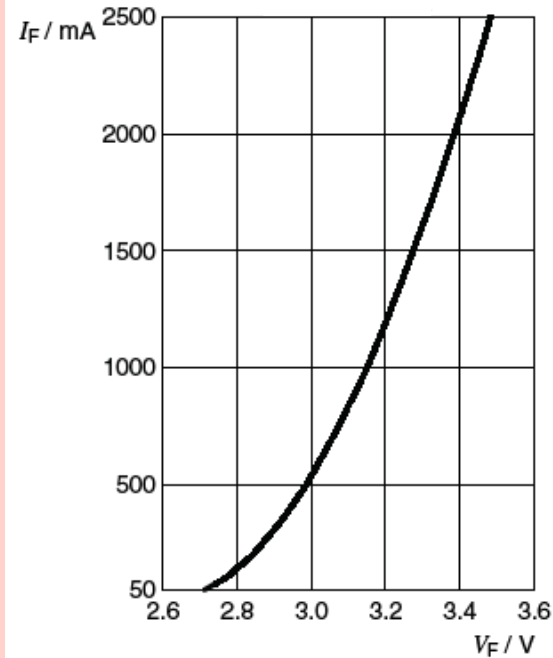
Description of changes

Forward current

$$I_F = f(V_F); T_j = 25\text{ °C}$$

KW CELNM2.TK

KW HHL532.TK

Current status**New status**

Note: Characteristic curves in the datasheet have been updated. Please review new datasheet for further details/changes

Description of changes

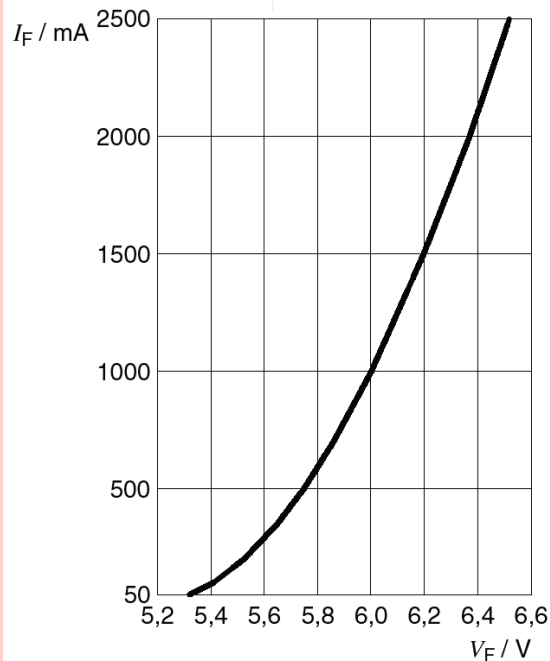
Forward current

$$I_F = f(V_F); T_j = 25\text{ °C}$$

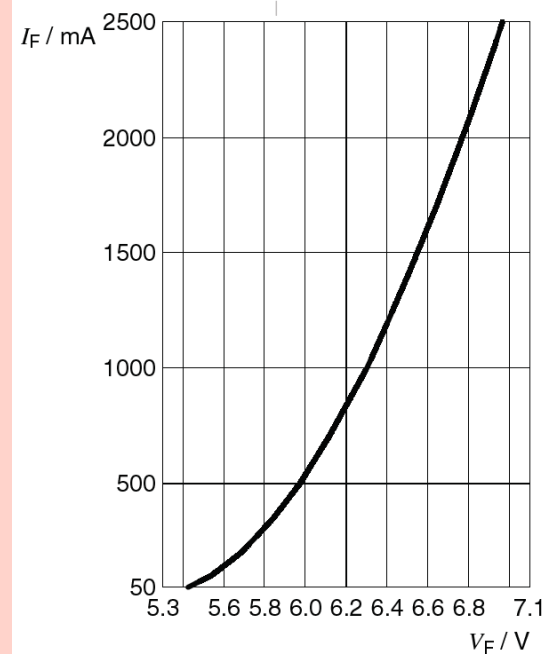
KW2 CFLNM2.TK

KW2 HIL532.TK

Current status



New status



Note: Characteristic curves in the datasheet have been updated. Please review new datasheet for further details/changes

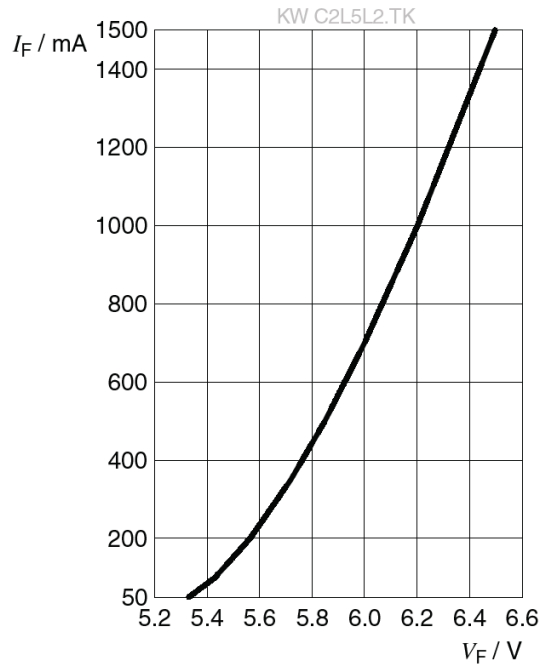
Description of changes

Forward current

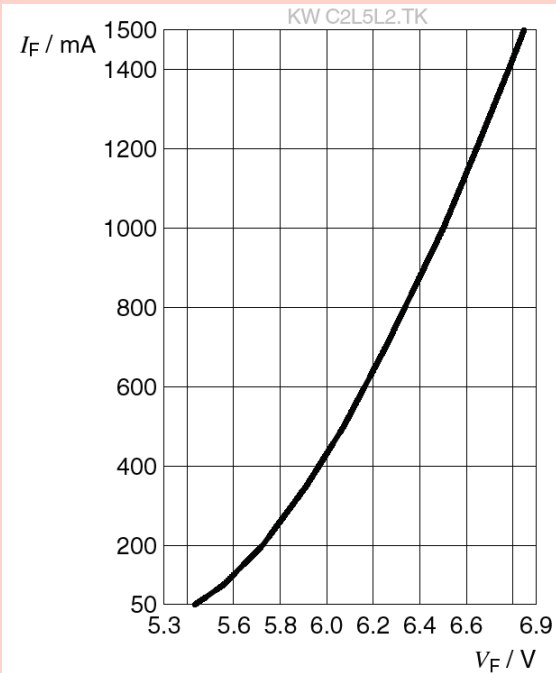
$$I_F = f(V_F); T_j = 25\text{ °C}$$

KW C2L5L2.TK

Current status



New status



Note: Characteristic curves in the datasheet have been updated. Please review new datasheet for further details/changes

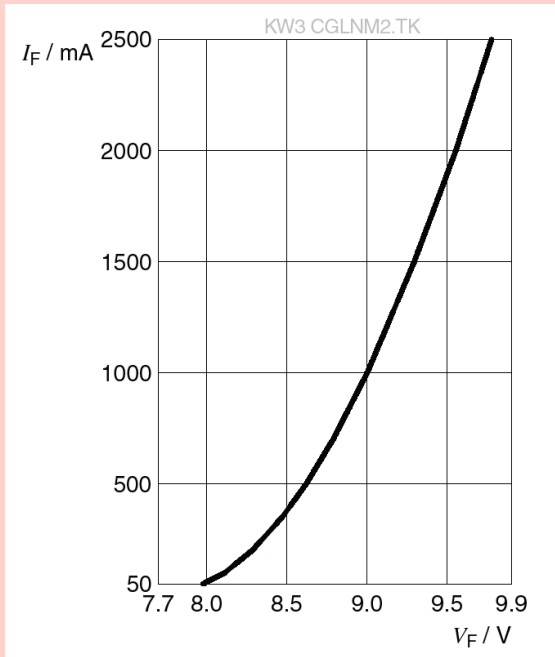
Description of changes

KW3 CGLNM2.TK

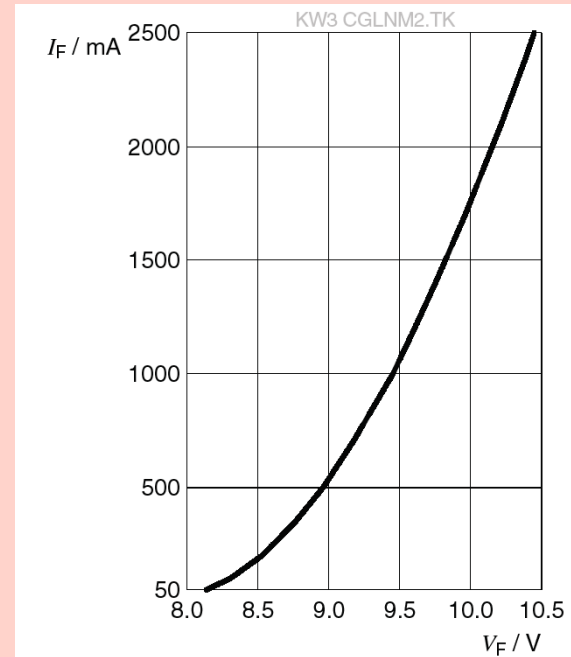
Forward current

$$I_F = f(V_F); T_j = 25 \text{ }^\circ\text{C}$$

Current status



New status



Note: Characteristic curves in the datasheet have been updated. Please review new datasheet for further details/changes

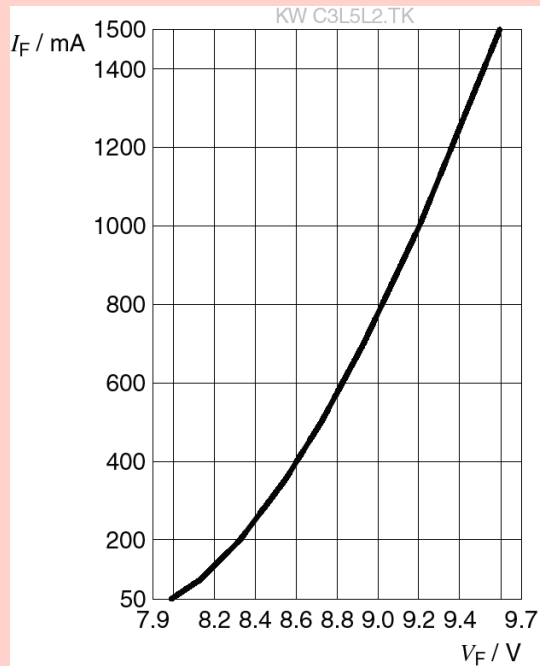
Description of changes

KW C3L5L2.TK

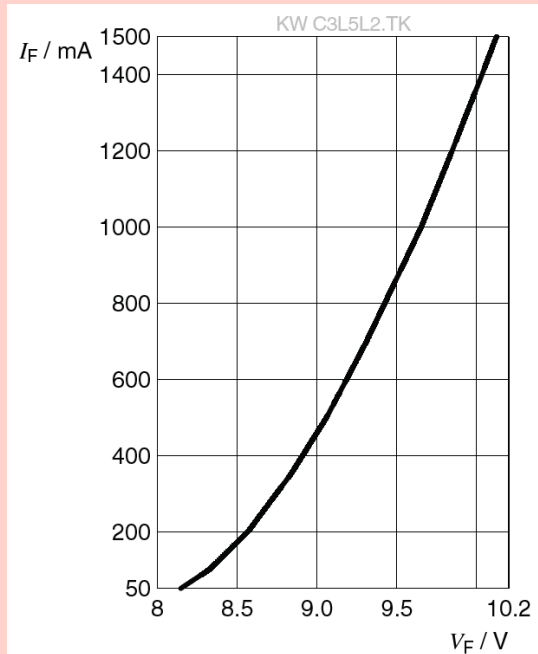
Forward current

$$I_F = f(V_F); T_j = 25 \text{ }^\circ\text{C}$$

Current status



New status



Note: Characteristic curves in the datasheet have been updated. Please review new datasheet for further details/changes

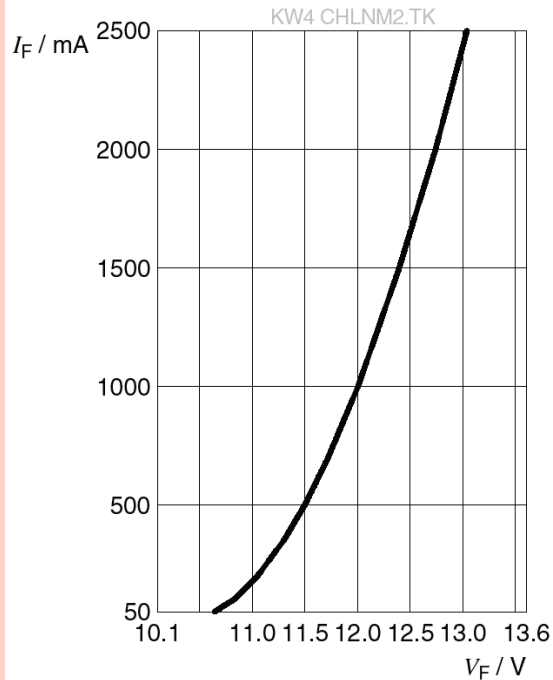
Description of changes

Forward current

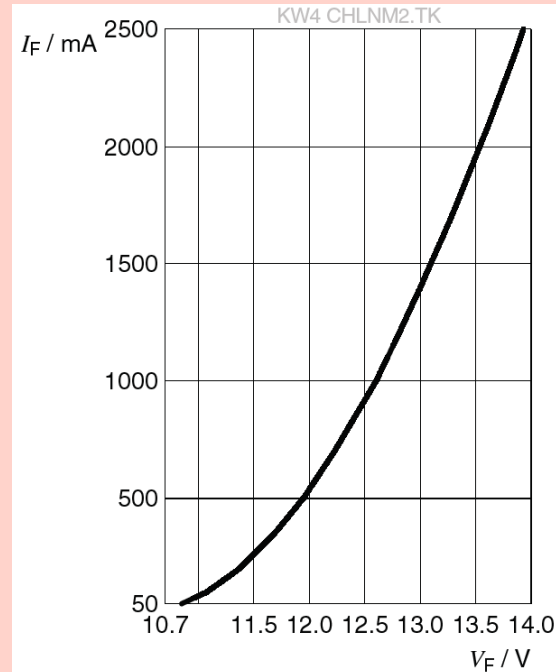
$$I_F = f(V_F); T_j = 25\text{ °C}$$

KW4 CHLNM2.TK

Current status



New status



Note: Characteristic curves in the datasheet have been updated. Please review new datasheet for further details/changes

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Thank you.

KW	CELNM2.TK-S2S4-3L04L0-2686-1A-S-HE	EN	Q65113A3809	0	10	7/25/2021
KW	CELNM2.TK-S2S5-4L0-2686-1A-S-VL	EN	Q65113A3583	0	10	6/10/2021
KW	CELNM2.TK-S2S5-5L06L0-2686-1A-R18-LM	EN	Q65113A2321	0	10	3/29/2021
KW	CELNM2.TK-S2S6-4L05L0-2686-A-R18-ZKW	EN	Q65113A0610	0	10	3/29/2021
KW	CELNM2.TK-S2S8-4L07M0-2686-S	EN	Q65112A8915	0	10	3/29/2021
KW	CELNM2.TK-S2S8-6M07M0-2686-1A-R18-XX	EN	Q65113A2963	0	10	3/29/2021
KW	CELNM2.TK-S3S4-4L0-2686-1A-R18-HE	EN	Q65113A3324	0	10	4/14/2021
KW	CELNM2.TK-S3S4-4L05L0-2686-1A-R18-HV	EN	Q65113A2698	0	10	3/29/2021
KW	CELNM2.TK-S3S4-5L0-2686-1A-R18-HE	EN	Q65113A1108	0	10	3/29/2021
KW	CELNM2.TK-S3S5-4L05L0-2686-1A-S-FQ-VL	EN	Q65113A3622	0	10	7/25/2021
KW	CELNM2.TK-S3S5-5L0-2686-1A-R18-TAY	EN	Q65113A3889	0	10	8/18/2021
KW	CELNM2.TK-S3S5-5L0-2686-1A-R18-VAR	EN	Q65113A2699	0	10	3/29/2021
KW	CELNM2.TK-S3S5-5L06L0-2686-1A-S-FQ-VL	EN	Q65113A3621	0	10	7/25/2021
KW	CELNM2.TK-S3S6-4L0-2686-1A-R18-HV	EN	Q65113A3825	0	10	7/30/2021
KW	CELNM2.TK-S3S6-4L0-2686-1A-S-HAN	EN	Q65113A3903	0	10	8/23/2021
KW	CELNM2.TK-S3S6-4L05L0-2686-1A-R18-AL	EN	Q65113A3170	0	10	3/29/2021
KW	CELNM2.TK-S3S6-4L05L0-2686-1A-R18-ZKW	EN	Q65113A1996	0	10	3/29/2021
KW	CELNM2.TK-S3S6-4L05L0-2686-1A-S-FQ-VL	EN	Q65113A3826	0	10	8/3/2021
KW	CELNM2.TK-S3S6-4L05L0-2686-1A-S-HE	EN	Q65113A3139	0	10	3/29/2021
KW	CELNM2.TK-S3S6-5L0-2686-1A-S-VAR	EN	Q65113A1137	0	10	3/29/2021
KW	CELNM2.TK-S3S6-5L06L0-2686-1A-R18-VL	EN	Q65113A3364	0	10	4/20/2021
KW	CELNM2.TK-S3S6-5L06L0-2686-1A-S-BYD	EN	Q65113A3582	0	10	6/10/2021
KW	CELNM2.TK-S3S6-5L06L0-2686-1A-S-HAN	EN	Q65113A3560	0	10	6/6/2021
KW	CELNM2.TK-S3S6-5L06L0-2686-A-R18-VAR	EN	Q65113A0089	0	10	3/29/2021
KW	CELNM2.TK-S3S6-5L06L0-2686-A-R18-XIN	EN	Q65113A1613	0	10	3/29/2021
KW	CELNM2.TK-S3S6-5L06L0-2686-A-S-HE	EN	Q65113A0046	0	10	3/29/2021
KW	CELNM2.TK-S3S7-4L05L0-2686-1A-R18-GW	EN	Q65113A1875	0	10	3/29/2021
KW	CELNM2.TK-S3S7-4L05L0-2686-1A-R18-XX	EN	Q65113A2087	0	10	3/29/2021
KW	CELNM2.TK-S3S7-4L05L0-2686-1A-R18-ZKW	EN	Q65113A3853	0	10	8/10/2021
KW	CELNM2.TK-S3S7-4L05L0-2686-1A-S-VL	EN	Q65113A3594	0	10	6/10/2021
KW	CELNM2.TK-S3S7-5L0-2686-1A-R18-VL	EN	Q65113A3888	0	10	8/18/2021
KW	CELNM2.TK-S3S7-5L0-2686-1A-S-AL	EN	Q65113A3827	0	10	7/30/2021
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KW	CELNM2.TK-S3S7-5L06L0-2686-1A-R18-LM	EN	Q65113A2833	0	10	3/29/2021
KW	CELNM2.TK-S3S7-5L06L0-2686-1A-R18-VL	EN	Q65113A3084	0	10	3/29/2021
KW	CELNM2.TK-S3S7-5L06L0-2686-1A-R18-XX	EN	Q65113A0659	0	10	3/29/2021
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KW	CELNM2.TK-S3S7-5L06L0-2686-A-S-Z-ZKW	EN	Q65112A9757	0	10	3/29/2021
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KW	CELM2.TK-S4S6-4L05L0-2686-A-R18-HV	EN	Q65113A1307	0	10	3/29/2021
KW	CELM2.TK-S4S7-4L05L0-2686-1A-R18-HE	EN	Q65113A2411	0	10	3/29/2021
KW	CELM2.TK-S4S7-4L05L0-2686-1A-S-HAN	EN	Q65113A3491	0	10	5/20/2021
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KW	CELM2.TK-S4S7-5L0-2686-1A-R18-VAR	EN	Q65113A2700	0	10	3/29/2021
KW	CELM2.TK-S4S7-5L0-2686-1A-S-HAN	EN	Q65113A2701	0	10	3/29/2021
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KW	CELM2.TK-S4S7-5L06L0-2686-1A-R18-XIN	EN	Q65113A2413	0	10	3/29/2021
KW	CELM2.TK-S4S7-5L06L0-2686-1A-R18-XX	EN	Q65113A1994	0	10	3/29/2021
KW	CELM2.TK-S4S7-5L06L0-2686-1A-S-AL	EN	Q65113A1995	0	10	3/29/2021
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KW	CELM2.TK-S4S7-5L06L0-2686-1A-S-VL	EN	Q65113A3015	0	10	3/29/2021
KW	CELM2.TK-S4S7-5L06L0-2686-A-S-HE	EN	Q65113A0520	0	10	3/29/2021
KW	CELM2.TK-S4S7-6L0-2686-1A-S-HAN	EN	Q65113A2702	0	10	3/29/2021
KW	CELM2.TK-S4S7-6L07L0-2686-1A-R18-GW	EN	Q65113A3754	0	10	7/6/2021
KW	CELM2.TK-S4S7-6L07L0-2686-1A-S-XX	EN	Q65113A3701	0	10	6/25/2021
KW	CELM2.TK-S4S7-6L07L0-2686-1A-S-ZKW	EN	Q65113A2894	0	10	3/29/2021
KW	CELM2.TK-S4S8-5L0-2686-1A-S-VL	EN	Q65113A3593	0	10	6/10/2021
KW	CELM2.TK-S4S8-5L06L0-2686-1A-R18-GW	EN	Q65113A2352	0	10	3/29/2021
KW	CELM2.TK-S4S8-5L06L0-2686-1A-R18-STA	EN	Q65113A2509	0	10	3/29/2021
KW	CELM2.TK-S4S8-5L06L0-2686-1A-R18-VL	EN	Q65113A3140	0	10	3/29/2021
KW	CELM2.TK-S4S8-5L06L0-2686-1A-S-AL	EN	Q65113A2836	0	10	3/29/2021
KW	CELM2.TK-S4S8-6L0-2686-1A-S-AL	EN	Q65113A2375	0	10	3/29/2021
KW	CELM2.TK-S4S8-6L06M0-2686-1A-S-VL	EN	Q65113A3756	0	10	7/6/2021
KW	CELM2.TK-S4S8-6L07L0-2686-1A-S-NAL	EN	Q65113A3810	0	10	7/25/2021
KW	CELM2.TK-S4S8-6L07L0-2686-1A-S-ZKW	EN	Q65113A1612	0	10	3/29/2021
KW	CELM2.TK350-X3X6-4L0-W365-S-HAN	EN	Q65113A2318	0	3	10/29/2020
KW	CELM2.TK350-X3X6-BWL0-W365-S-HAN	EN	Q65113A2550	0	3	12/18/2020
KW	CELM2.TK350-X3X8-BWL06L0-W365-S-XX	EN	Q65113A2272	0	3	2/4/2021
KW	CELM2.TK350-X4X7-5L0-W365-S-HAN	EN	Q65113A2320	0	3	10/29/2020
KW	CELM2.TK350-X4X7-6L0-W365-S-HAN	EN	Q65113A2319	0	3	10/29/2020
KW2	CFLNM2.TK-D2D6-5L06L0-SC6B-1A-S-GW	EN	Q65113A1095	0	10	3/29/2021
KW2	CFLNM2.TK-D2D7-5L06L0-SC6B-1A-S-Z-XX	EN	Q65113A0694	0	10	3/29/2021
KW2	CFLNM2.TK-D2D7-5L06L0-SC6B-A-S-Z-XX	EN	Q65113A0693	0	10	3/29/2021
KW2	CFLNM2.TK-D2D9-4L07M0-SC6B-S	EN	Q65112A8917	0	10	3/29/2021
KW2	CFLNM2.TK-D3D4-5L0-SC6B-1A-R18-HE	EN	Q65113A1109	0	10	3/29/2021
KW2	CFLNM2.TK-D3D5-4L05L0-SC6B-1A-R18-HV	EN	Q65113A2893	0	10	3/29/2021
KW2	CFLNM2.TK-D3D6-5L0-SC6B-1A-S-VAR	EN	Q65113A1134	0	10	3/29/2021
KW2	CFLNM2.TK-D3D6-5L06L0-SC6B-1A-S-BYD	EN	Q65113A3703	0	10	6/25/2021
KW2	CFLNM2.TK-D3D6-5L06L0-SC6B-A-R18-HV	EN	Q65113A1306	0	10	3/29/2021
KW2	CFLNM2.TK-D3D6-5L06L0-SC6B-A-S-HE	EN	Q65113A0045	0	10	3/29/2021
KW2	CFLNM2.TK-D3D7-4L05L0-SC6B-S-S13-ZKW	EN	Q65113A2174	0	10	7/6/2021
KW2	CFLNM2.TK-D3D7-5L05M0-SC6B-R18-ZKW	EN	Q65112A9794	0	10	3/29/2021
KW2	CFLNM2.TK-D3D7-5L06L0-1-R18-ZKW	EN	Q65112A9756	0	10	3/29/2021
KW2	CFLNM2.TK-D3D7-5L06L0-SC6B-1A-R18-XX	EN	Q65113A1308	0	10	3/29/2021

KW2	CFLNM2.TK-D3D7-5L06L0-SC6B-1A-S-DEP	EN	Q65113A2171	0	10	3/29/2021
KW2	CFLNM2.TK-D3D7-5L06M0-SC6B-1A-S-VL	EN	Q65113A1794	0	10	3/29/2021
KW2	CFLNM2.TK-D3D7-6L07L0-SC6B-1A-S-XX	EN	Q65113A3924	0	10	8/30/2021
KW2	CFLNM2.TK-D3D7-6L07L0-SC6B-1A-S-ZKW	EN	Q65113A1610	0	10	3/29/2021
KW2	CFLNM2.TK-D3D8-6L07L0-SC6B-1A-S-ZKW	EN	Q65113A1611	0	10	3/29/2021
KW2	CFLNM2.TK-D3D9-4L07M0-SC6B-1A-R18-XX	EN	Q65113A2704	0	10	3/29/2021
KW2	CFLNM2.TK-D4D5-5L0-SC6B-1A-R18-HE	EN	Q65113A1792	0	10	3/29/2021
KW2	CFLNM2.TK-D4D6-4L05L0-SC6B-1A-R18-HV	EN	Q65113A3325	0	10	4/14/2021
KW2	CFLNM2.TK-D4D6-5L06L0-SC6B-1A-R18-HE	EN	Q65113A1309	0	10	3/29/2021
KW2	CFLNM2.TK-D4D7-5L06L0-SC6B-1A-R18-HV	EN	Q65113A1912	0	10	3/29/2021
KW2	CFLNM2.TK-D4D7-5L06L0-SC6B-1A-S-BYD	EN	Q65113A3702	0	10	6/25/2021
KW2	CFLNM2.TK-D4D7-5L06L0-SC6B-1A-S-HV	EN	Q65113A1796	0	10	3/29/2021
KW2	CFLNM2.TK-D4D7-5L06L0-SC6B-1A-S-VL	EN	Q65113A3757	0	10	7/6/2021
KW2	CFLNM2.TK-D4D7-5L06L0-SC6B-1A-S-XIN	EN	Q65113A1362	0	10	3/29/2021
KW2	CFLNM2.TK-D4D7-5L06L0-SC6B-R18-HE	EN	Q65113A2412	0	10	3/29/2021
KW2	CFLNM2.TK-D4D7-6L07L0-SC6B-1A-R18-XX	EN	Q65113A3854	0	10	8/10/2021
KW2	CFLNM2.TK-D4D8-5L06L0-SC6B-1A-R18-AL	EN	Q65113A3904	0	10	8/23/2021
KW2	CFLNM2.TK-D5D7-5L06L0-SC6B-1A-S-HE	EN	Q65113A2290	0	10	3/29/2021
KW2	CFLNM2.TK-D5D8-5L06L0-SC6B-1A-R18-AL	EN	Q65113A3323	0	10	4/14/2021
KW2	CFLNM2.TK-D5D8-5L06L0-SC6B-A-S-HE	EN	Q65113A0611	0	10	3/29/2021
KW2	CFLNM2.TK-D5D8-6L07L0-SC6B-1A-R18-GW	EN	Q65113A3755	0	10	7/6/2021
KW2	CFLNM2.TK-D5D9-6L07M0-SC6B-A-S-XX	EN	Q65113A2452	0	10	3/29/2021
KW3	CGLNM2.TK-T2T6-5L06L0-JCAB-R18-VEN	EN	Q65112A9683	0	10	3/30/2021
KW3	CGLNM2.TK-T2T9-4L07M0-JCAB-S	EN	Q65112A9532	0	10	3/30/2021
KW3	CGLNM2.TK-T3T5-5L06L0-JCAB-1A-R18-HV	EN	Q65113A3706	0	10	6/25/2021
KW3	CGLNM2.TK-T3T6-4L05L0-JCAB-1A-R18-HV	EN	Q65113A3326	0	10	4/14/2021
KW3	CGLNM2.TK-T3T6-5L06L0-JCAB-A-R18-HV	EN	Q65113A1305	0	10	3/30/2021
KW3	CGLNM2.TK-T3T7-5L05M0-JCAB-A-R18-ZKW	EN	Q65113A0901	0	10	3/30/2021
KW3	CGLNM2.TK-T3T7-5L06L0-1-1A-R18-XX	EN	Q65113A3172	0	10	3/30/2021
KW3	CGLNM2.TK-T3T7-5L06L0-JCAB-1A-S-ZKW	EN	Q65113A3705	0	10	6/25/2021
KW3	CGLNM2.TK-T3T7-5L06L0-JCAB-A-R18-DEP	EN	Q65113A2170	0	10	3/30/2021
KW3	CGLNM2.TK-T3T7-6L07L0-JCAB-A-R18-ZKW	EN	Q65113A0030	0	10	3/30/2021
KW3	CGLNM2.TK-T4T6-6L07M0-JCWC-1A-S-XX	EN	Q65113A3329	0	10	4/14/2021
KW3	CGLNM2.TK-T4T7-5L06L0-JCAB-1A-S-XIN	EN	Q65113A3595	0	10	6/10/2021
KW3	CGLNM2.TK-T4T7-6L07L0-JCWC-1A-S-XX	EN	Q65113A3704	0	10	6/25/2021
KW3	CGLNM2.TK-T4T8-5L06L0-JCAB-1A-R18-XX	EN	Q65113A2834	0	10	3/30/2021
KW3	CGLNM2.TK-T4T8-5L06L0-JCAB-A-R18-VL	EN	Q65113A2507	0	10	3/30/2021
KW3	CGLNM2.TK-T5T7-5L06L0-JCAB-1A-S-HE	EN	Q65113A2169	0	10	3/30/2021
KW3	CGLNM2.TK-T5T8-5L06L0-JCAB-A-R18-HE	EN	Q65113A1140	0	10	3/30/2021
KW4	CHLNM2.TK-F2FA-4L07M0-AGAE-S	EN	Q65112A9533	0	10	3/30/2021
KW4	CHLNM2.TK-F3F5-5L06L0-AGAE-A-R18-HV	EN	Q65113A1304	0	10	5/20/2021
KW4	CHLNM2.TK-F3F7-5L06L0-1-1A-R18-XX	EN	Q65113A3171	0	10	3/30/2021
KW4	CHLNM2.TK-F3F7-5L06L0-1-R18-ZKW	EN	Q65112A9755	0	10	3/30/2021
KW4	CHLNM2.TK-F3F7-5L06L0-AGSG-A-R18-ZKW	EN	Q65113A0387	0	10	3/30/2021
KW4	CHLNM2.TK-F3F7-6L07L0-AGAE-A-R18-ZKW	EN	Q65113A0029	0	10	3/30/2021
KW4	CHLNM2.TK-F4F7-5L06L0-AGAE-1A-S-XIN	EN	Q65113A1363	0	10	3/30/2021

KW4	CHLNM2.TK-F4F8-5L06L0-AGAE-1A-S-HE	EN	Q65113A2289	0	10	3/30/2021
KW4	CHLNM2.TK-F4F8-5L06L0-AGAE-A-R18-VL	EN	Q65113A2508	0	10	3/30/2021
KW4	CHLNM2.TK-F5F8-5L06L0-AGAE-A-R18-HE	EN	Q65113A1138	0	10	3/30/2021
KW	HHL532.TK-S2S5-5L05M0-2686-1A-S-VAR	EN	Q65113A3164	0	10	3/24/2021
KW	HHL532.TK-S2S8-4L07M0-2686-A-R18	EN	Q65112A8068	0	10	5/29/2020
KW	HHL532.TK-S2S9-4L07M0-2686-A-R18	EN	Q65112A9389	0	10	5/29/2020
KW	HHL532.TK-S3S6-5L06M0-2686-1A-S-BAY	EN	Q65113A1921	0	10	8/20/2020
KW	HHL532.TK-S3S7-4L05L0-2686-1A-R18-XX	EN	Q65113A2230	0	10	10/12/2020
KW	HHL532.TK-S3S7-5L06L0-2686-1A-S-XX	EN	Q65113A0847	0	10	5/29/2020
KW	HHL532.TK-S3S7-5L06L0-2686-A-R18-LM	EN	Q65112A9771	0	10	5/29/2020
KW	HHL532.TK-S3S7-5M06M0-2686-1A-R18-XX	EN	Q65113A0766	0	10	5/29/2020
KW	HHL532.TK-S3S8-5L06M0-2686-1A-R18	EN	Q65113A2256	0	10	10/15/2020
KW	HHL532.TK-S3S8-5L07M0-2686-1A-S-XX	EN	Q65113A1399	0	10	6/8/2020
KW	HHL532.TK-S4S7-5L0-2686-1A-S-HAN	EN	Q65113A2830	0	10	1/28/2021
KW	HHL532.TK-S4S7-5L06L0-2686-1A-R18-XIN	EN	Q65113A2689	0	10	1/12/2021
KW	HHL532.TK-S4S7-5L06L0-2686-1A-R18-XX	EN	Q65113A3785	0	10	7/15/2021
KW	HHL532.TK-S4S7-5L06L0-2686-1A-S-HAN	EN	Q65113A3518	0	10	5/27/2021
KW	HHL532.TK-S4S7-5M06M0-2686-1A-R18-XX	EN	Q65113A3639	0	10	6/16/2021
KW	HHL532.TK-S4S7-6L0-2686-1A-S-HAN	EN	Q65113A2829	0	10	1/28/2021
KW	HHL532.TK-S4S8-5L06L0-2686-1A-R18-LM	EN	Q65113A2090	0	10	9/16/2020
KW	HHL532.TK-S4S8-5L06L0-2686-1A-R18-VL	EN	Q65113A1697	0	10	7/22/2020
KW	HHL532.TK-S4S8-5L06L0-2686-1A-S-XX	EN	Q65113A1839	0	10	8/7/2020
KW2	HIL532.TK-D2D9-4L07M0-SC6B-A-R18	EN	Q65112A8069	0	10	2/25/2021
KW2	HIL532.TK-D3D6-6L07L0-SC6B-1A-S-VAR	EN	Q65113A0714	0	10	2/25/2021
KW2	HIL532.TK-D3D7-4L05L0-SC6B-1A-R18-XX	EN	Q65113A2228	0	10	2/25/2021
KW2	HIL532.TK-D3D7-5L06L0-SC6B-1A-S-XX	EN	Q65113A0848	0	10	2/25/2021
KW2	HIL532.TK-D3D7-5L06L0-SC6B-A-R18-LM	EN	Q65112A9772	0	10	2/25/2021
KW2	HIL532.TK-D3D7-6L0-SC6B-1A-R18-XX	EN	Q65113A3552	0	10	6/2/2021
KW2	HIL532.TK-D4D6-5L06L0-SC6B-1A-S-TAY	EN	Q65113A3315	0	10	4/13/2021
KW2	HIL532.TK-D4D6-6L07L0-SC6B-1A-S-SV	EN	Q65113A2274	0	10	2/25/2021
KW2	HIL532.TK-D4D7-5L06L0-SC6B-1A-S-XX	EN	Q65113A2089	0	10	2/25/2021
KW2	HIL532.TK-D4D7-6L06M0-SC6B-1A-S-SV	EN	Q65113A2764	0	10	3/4/2021
KW2	HIL532.TK-D4D8-5L06L0-SC6B-A-R18-LM	EN	Q65113A2690	0	10	2/25/2021
KW2	HIL532.TK-D5D8-5L0-SC6B-1A-S-HAN	EN	Q65113A2762	0	10	2/25/2021
KW2	HIL532.TK-D5D8-5L06L0-SC6B-1A-S-HAN	EN	Q65113A3519	0	10	5/27/2021
KW2	HIL532.TK-D5D8-5L06L0-SC6B-A-R18-XIN	EN	Q65113A2688	0	10	2/25/2021
KW2	HIL532.TK-D5D8-5M06M0-SC6B-1A-R18-XX	EN	Q65113A3260	0	10	4/7/2021
KW2	HIL532.TK-D5D8-6L0-SC6B-1A-S-HAN	EN	Q65113A2763	0	10	2/25/2021
KW2	HIL532.TK-D5D8-6L0-SC6B-1A-S-VAR	EN	Q65113A1741	0	10	2/25/2021
KW2	HIL532.TK-D5D8-6L07L0-SC6B-1A-S-VAR	EN	Q65113A0882	0	10	2/25/2021
KW2	HIL532.TK-D5D9-5L06L0-SC6B-1A-S-ZKW	EN	Q65113A1694	0	10	2/25/2021
KW2	HIL532.TK-D5D9-5L06M0-SC6B-1A-S-VL	EN	Q65113A1742	0	10	2/25/2021
KW	C2L5L2.TK-D3D7-5L06L0-0-1A-R18-LM	EN	Q65113A2907	0	10	6/10/2021
KW	C2L5L2.TK-D3D9-4L07M0-0-A00-S	EN	Q65113A0756	0	10	6/10/2021
KW	C2L5L2.TK-D3D9-5L06M0-0-1A-R18-VL	EN	Q65113A2840	0	10	6/10/2021
KW	C2L5L2.TK-D4D6-5L06L0-0-1A-R18-FQ-VL	EN	Q65113A3650	0	10	6/16/2021

KW	C2L5L2.TK-D4D7-5L06L0-1-1A-R18-VL	EN	Q65113A3007	0	10	6/10/2021
KW	C2L5L2.TK-D4D8-5L06L0-0-1A-R18-LM	EN	Q65113A3278	0	10	6/10/2021
KW	C2L5L2.TK-D5D7-6L07L0-0-1A-R18-VL	EN	Q65113A3715	0	1	6/29/2021
KW	KW C3L5L2.TK-T3T7-5L06L0-0-1A-R18-LM	EN	Q65113A2906	0	10	6/30/2021
KW	KW C3L5L2.TK-T3T9-4L07M0-0-A00-S	EN	Q65113A0769	0	10	6/30/2021
KW	KW C3L5L2.TK-T3T9-5L06M0-0-1A-R18-VL	EN	Q65113A2841	0	10	6/30/2021
KW	KW C3L5L2.TK-T4T6-5L06L0-0-1A-R18-FQ-VL	EN	Q65113A3649	0	10	6/30/2021
KW	KW C3L5L2.TK-T5T7-6L07L0-0-1A-R18-VL	EN	Q65113A3714	0	1	6/29/2021