

Infonote

AO-IN-2023-037-I

Change on reel material, pieces per reel, reduction of measurement time, high current / pulse and new peak wavelength for SYNIOS E4014 (Affected device list as below)

12.07.2023

Dear Customer,

please take note of this **Infonote**.

This customer notification is for information only and does not require customer approval.

Objective:

1. Change reel material for SYNIOS E4014
2. Change pieces per reel
3. Reduction of measurement time for SYNIOS E4014
4. Introduction of new peak wavelength binning for KW DPL833.KD
5. Datasheet correction of stated max. forward current and max. forward current pulsed for KW DPLS35.K2.

Affected products:

Affected products according to following list

Products	1. Reel materi al	2. Pcs per reel	3. Reduction of measure ment time	4. New Peak WL	5. Max. current correction
KW DPL832.K1	X		X		
KW DPL833.KD	X		X	X	
KW DPLS33.K2	X	X	X		
KW DPLS34.HD	X	X	X		
KW DPLS34.K2	X	X	X		
KW DPLS35.K2	X		X		X
KW DPLS31.SB	X				

Reason for change

1. Improvement of reel stability by changing to new reel with better material strength properties.
2. Offer more pieces per reel to reduce assembly time at customer.
3. Production line optimization.
4. Additional peak wavelength binning for KW DPL833.KD.
5. Improvement of max. currents for KW DPLS35.K2 which allows customer more flexibility for using the product in the application.

1. Change reel material for SYNIOS E4014

Current status

Material PS

Dimensions acc. to IEC 60286-3
and EIA 481-E

Geometry / optical appearance:



New status

Material PC-ABS

Dimensions acc. to IEC 60286-3
and EIA 481-E

Geometry / optical appearance:



Description of change:

The geometrical changes are minor and still comply with dimension standards IEC 60286-3 and EIA 481-E. Arbor hole dimensions are equal.

2. Change pieces per reel

Current status

New status

Description of change: 1k or 2k per reel

4k per reel

3. Reduction of measurement time for SYNIOS E4014

Current status

Schematic representation for current datasheet

Glossary

- ¹⁾ **Brightness:** Brightness values are measured during a current pulse of typically **60 ms** with an internal reproducibility of $\pm 8\%$ and an expanded uncertainty of $\pm 11\%$ (acc. to GUM with a coverage factor of $k = 3$).
- ³⁾ **Chromaticity coordinate groups:** Chromaticity coordinates are measured during a current pulse of typically **60 ms** with an internal reproducibility of ± 0.005 and an expanded uncertainty of ± 0.01 (acc. to GUM with a coverage factor of $k = 3$).
- ⁴⁾ **Forward Voltage:** The forward voltage is measured during a current pulse of typically **43 ms** with an internal reproducibility of $\pm 0.05\text{ V}$ and an expanded uncertainty of $\pm 0.1\text{ V}$ (acc. to GUM with a coverage factor of $k = 3$).

Description of change:

New Status:

Schematic representation for datasheet change

Glossary

- ¹⁾ **Brightness:** Brightness values are measured during a current pulse of typically **45 ms** with an internal reproducibility of $\pm 8\%$ and an expanded uncertainty of $\pm 11\%$ (acc. to GUM with a coverage factor of $k = 3$).
- ³⁾ **Chromaticity coordinate groups:** Chromaticity coordinates are measured during a current pulse of typically **45 ms** with an internal reproducibility of ± 0.005 and an expanded uncertainty of ± 0.01 (acc. to GUM with a coverage factor of $k = 3$).
- ⁴⁾ **Forward Voltage:** The forward voltage is measured during a current pulse of typically **28 ms** with an internal reproducibility of $\pm 0.05\text{ V}$ and an expanded uncertainty of $\pm 0.1\text{ V}$ (acc. to GUM with a coverage factor of $k = 3$).

4. Introduction of new peak wavelength binning for KW DPL833.KD

Current status

Peak Wavelength (λ_{peak})
min. 446nm
max. 460nm

New status

Peak Wavelength (λ_{peak})
min. 447nm
max. 459nm

Description of change:

Wavelength Groups

Group	Peak Wavelength $I_F = 120\text{ mA}$ min. λ_{peak}	Peak Wavelength $I_F = 120\text{ mA}$ max. λ_{peak}
H	446 nm	448 nm
J	448 nm	450 nm
K	450 nm	452 nm
L	452 nm	454 nm
M	454 nm	456 nm
N	456 nm	458 nm
P	458 nm	460 nm

Wavelength Groups

Group	Peak Wavelength $I_F = 120\text{ mA}$ min. λ_{peak}	Peak Wavelength $I_F = 120\text{ mA}$ max. λ_{peak}
B	447 nm	449 nm
C	449 nm	451 nm
D	451 nm	453 nm
E	453 nm	455 nm
F	455 nm	457 nm
G	457 nm	459 nm

5. Datasheet correction of stated max. forward current and max. forward current pulsed for KW DPLS35.K2

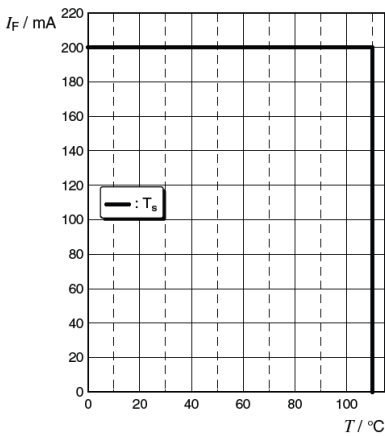
Current status

Forward current (If max.)
200mA

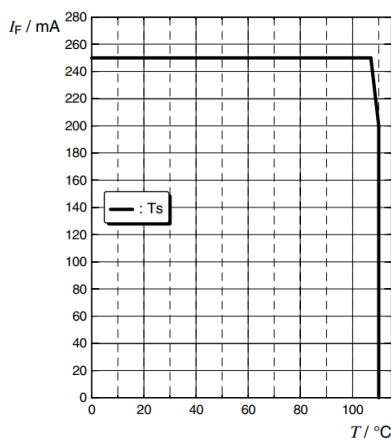
New status

Forward current (If max.)
250mA

Max. Permissible Forward Current
 $I_F = f(T)$



Max. Permissible Forward Current
 $I_F = f(T)$



Description of change:

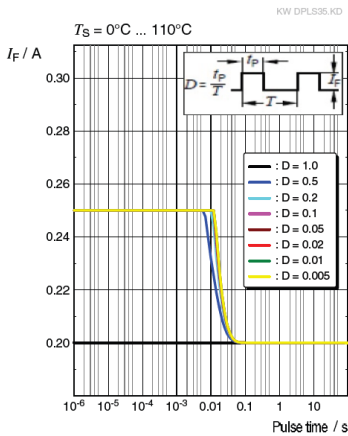
Datasheet correction of stated max. forward current and max. forward current pulsed for KW DPLS35.K2

Current status

Forward current pulsed (If max.)
250mA

Permissible Pulse Handling Capability

$I_F = f(t_p)$; D: Duty cycle

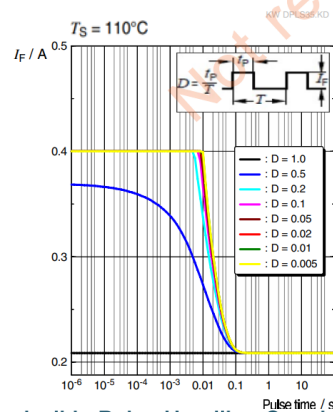


New status

Forward current pulsed (If max.)
400mA

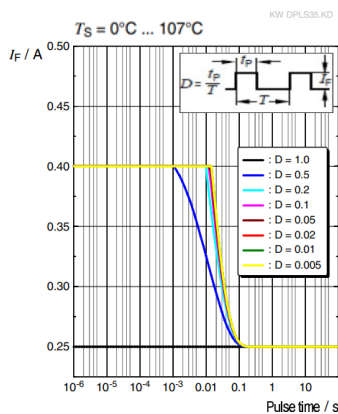
Permissible Pulse Handling Capability

$I_F = f(t_p)$; D: Duty cycle



Permissible Pulse Handling Capability

$I_F = f(t_p)$; D: Duty cycle



Description of change:

Time schedule:	1. Change on reel material → Implemented 2. Change pieces per reel → Earliest D/C: 2333 (yy/ww) 3. Reduction of measurement time for SYNIOS E4014 → Implemented 4. New peak wavelength binning for KW DPL833.KD → Implemented 5. Datasheet correction of for KW DPLS35.K2 → Implemented
Assessment:	1. No changes in the fit, form, function and reliability of the device. 2. Information on pieces per reel are updated in the datasheet 3. Glossary is updated in the datasheet 4. Updated datasheet version is available 5. Updated datasheet version is available
Documentation:	1. No changes in the fit, form, function and reliability of the device. 2. New datasheet will be released 3. New datasheet will be released 4. New datasheet will be released 5. New datasheet will be released

Material (Q-no.)	MQD	Product Family Name	Device Family
Q65112A9111	KW DPL832.K1-75J6K-DEGL-L1-39-100-S	SYNIOS	KW DPL832_Kx
Q65112A9606	KW DPL832.K1-8J6K-EHFK-L1-39-100-S-T-XX	SYNIOS	KW DPL832_Kx
Q65113A3047	KW DPL833.KD-JULP-D025D184-HP-N464-120-S	SYNIOS	KW DPL833_Kx
Q65113A5231	KW DPL833.KD-KQKU-D078D102-KN-S424-S-SV	SYNIOS	KW DPL833_Kx
Q65113A5230	KW DPL833.KD-KQKU-D096D120-KN-S424-S-SV	SYNIOS	KW DPL833_Kx
Q65111A7054	KW DPLS31.SB-5H5J-E5P7-QV-1-120-R18	SYNIOS	KW DPLS31_Sx
Q65112A7340	KW DPLS31.SB-5H5J-E5P7-QV-1-120-S	SYNIOS	KW DPLS31_Sx
Q65113A0259	KW DPLS31.SB-6H5J-J5M6-SV-24A4-120-S-XX	SYNIOS	KW DPLS31_Sx
Q65113A2045	KW DPLS31.SB-6H6J-E5P7-QV-1-120-S	SYNIOS	KW DPLS31_Sx
Q65112A2904	KW DPLS31.SB-7H5J-G5I6-SV-1-120-R18-XX	SYNIOS	KW DPLS31_Sx
Q65112A8094	KW DPLS31.SB-7H5J-J5L6-QV-1-120-S-XX	SYNIOS	KW DPLS31_Sx
Q65112A0749	KW DPLS31.SB-7H5J-J5L6-SV-1-120-R18-T-XX	SYNIOS	KW DPLS31_Sx
Q65113A0908	KW DPLS31.SB-7H5J-J5L6-SV-1-120-R18-T-XX	SYNIOS	KW DPLS31_Sx
Q65111A5979	KW DPLS31.SB-7H5J-J6N6-QV-1-R18-120	SYNIOS	KW DPLS31_Sx
Q65112A8089	KW DPLS31.SB-7H5J-K5L6-QV-1-120-R18-VIS	SYNIOS	KW DPLS31_Sx
Q65111A8013	KW DPLS31.SB-7H5J-L5M6-QV-1-120-R18-VIS	SYNIOS	KW DPLS31_Sx
Q65112A8390	KW DPLS31.SB-7H6J-I5K6-SV-1-120-R18-XX	SYNIOS	KW DPLS31_Sx
Q65113A2890	KW DPLS31.SB-8H5J-K5M6-QV-24A4-120-S-XX	SYNIOS	KW DPLS31_Sx
Q65113A2889	KW DPLS31.SB-8H5J-L5M6-QV-24A4-120-S-XX	SYNIOS	KW DPLS31_Sx
Q65112A1843	KW DPLS31.SB-8H5J-M5P7-QV-1-120-R18-XX	SYNIOS	KW DPLS31_Sx
Q65112A6761	KW DPLS31.SB-8H6J-F5G7-QV-1-120-R18-XX	SYNIOS	KW DPLS31_Sx
Q65111A7752	KW DPLS31.SB-8H6J-MP7-QU-1-120-R18-SV	SYNIOS	KW DPLS31_Sx
Q65112A8854	KW DPLS31.SB-8H6J-MP7-QU-1-120-R18-SV	SYNIOS	KW DPLS31_Sx
Q65112A8914	KW DPLS33.K2-HIJG-D30D144-HN-22C2-120-S	SYNIOS	KW DPLS33_Kx
Q65113A4001	KW DPLS33.K2-HJJC-D54D78-HN-22C2-S-DES	SYNIOS	KW DPLS33_Kx
Q65113A0998	KW DPLS33.K2-HJJC-D55D79-LN-22C2-S-XX	SYNIOS	KW DPLS33_Kx
Q65113A1340	KW DPLS33.K2-HJJC-D77D101-JM-2262-120-S	SYNIOS	KW DPLS33_Kx
Q65113A2277	KW DPLS33.K2-HJJC-D80D104-LN-22C2-S-DES	SYNIOS	KW DPLS33_Kx
Q65113A4021	KW DPLS33.K2-HJJC-D94D118-JM-1-120-S-XX	SYNIOS	KW DPLS33_Kx
Q65112A9207	KW DPLS33.K2-HJJD-D57D81-JM-26-120-S	SYNIOS	KW DPLS33_Kx
Q65113A1777	KW DPLS33.K2-HKJD-D38D62-HN-1-120-S-XX	SYNIOS	KW DPLS33_Kx
Q65113A5499	KW DPLS33.K2-HKJD-D54D78-HN-22C2-S-DES	SYNIOS	KW DPLS33_Kx
Q65113A2790	KW DPLS33.K2-HKJD-D55D79-HN-22C2-S-DES	SYNIOS	KW DPLS33_Kx
Q65113A2791	KW DPLS33.K2-HKJD-D55D79-LN-22C2-120-DES	SYNIOS	KW DPLS33_Kx
Q65113A4332	KW DPLS33.K2-HLJD-D50D74-JL-22C2-S-TM	SYNIOS	KW DPLS33_Kx
Q65112A8138	KW DPLS33.KD-HIJG-D30D144-HN-22C2-120-S	SYNIOS	KW DPLS33_Kx
Q65112A9570	KW DPLS33.KD-HIJG-D90D134-22C2-120-S-XX	SYNIOS	KW DPLS33_Kx
Q65112A8455	KW DPLS33.KD-HJJC-D102D118-KN-1-120-S-SV	SYNIOS	KW DPLS33_Kx
Q65112A9039	KW DPLS33.KD-HJJC-D57D81-JM-1-120-S-XX	SYNIOS	KW DPLS33_Kx
Q65113A3050	KW DPLS34.HD-HGJH-D025D184-HN-22A2-120-S	SYNIOS	KW DPLS34_Hx
Q65113A1127	KW DPLS34.K2-HJJJ-D25D144-HR-22A2-120-S	SYNIOS	KW DPLS34_Kx
Q65113A6092	KW DPLS34.K2-HLJE-D80D104-KM-22A2-ZD-XX	SYNIOS	KW DPLS34_Kx
Q65113A2570	KW DPLS34.K2-JCJG-D54D78-JM-26-S-S-XX	SYNIOS	KW DPLS34_Kx
Q65113A4893	KW DPLS34.K2-JCJG-D54D78-JM-26-S-XX	SYNIOS	KW DPLS34_Kx
Q65113A5501	KW DPLS34.K2-JCJG-D56D80-JM-26-S-S-XX	SYNIOS	KW DPLS34_Kx
Q65113A5556	KW DPLS34.K2-JCJG-D56D80-JM-26-S-XX	SYNIOS	KW DPLS34_Kx

Q65113A3619	KW DPLS34.K2-JDJF-D31D55-HR-2262-S-VIS	SYNIOS	KW DPLS34_Kx
Q65113A4856	KW DPLS34.K2-JFJH-D25D47-HR-2262-S-VIS	SYNIOS	KW DPLS34_Kx
Q65112A9120	KW DPLS34.KD-HJJG-D25D144-HR-22A2-120-S	SYNIOS	KW DPLS34_Kx
Q65113A4570	KW DPLS34.KD-HLJE-D114F424-BC-2262-S-SV	SYNIOS	KW DPLS34_Kx
Q65113A1062	KW DPLS34.KD-HLJE-D117D141-KN-1-120-S-SV	SYNIOS	KW DPLS34_Kx
Q65113A3391	KW DPLS34.KD-HLJE-D117F424-BC-2262-S-SV	SYNIOS	KW DPLS34_Kx
Q65113A3416	KW DPLS34.KD-HLJE-D80F424-BC-2262-S-SV	SYNIOS	KW DPLS34_Kx
Q65113A1746	KW DPLS34.KD-HLJE-D84D100-KN-1-120-S-SV	SYNIOS	KW DPLS34_Kx
Q65113A4023	KW DPLS34.KD-HLJG-D100D124-KN-1-120-S-SV	SYNIOS	KW DPLS34_Kx
Q65113A0033	KW DPLS34.KD-JDJG-D59D75-KN-1-120-S-SV	SYNIOS	KW DPLS34_Kx
Q65113A4588	KW DPLS35.K2-HJJI-D025D184-HN-22A2-120-S	SYNIOS	KW DPLS34_Kx
Q65113A4802	KW DPLS35.KD-HIJK-D025D184-HN-22A2-120-S	SYNIOS	KW DPLS35_Kx
Q65113A5232	KW DPLS35.KD-JCJF-D077D101-KN-2262-S-SV	SYNIOS	KW DPLS35_Kx