

OSRAM Infonote

AO-IN-2022-040-I

Optimization of doping level for
KY DMLNS31.FY and KY DMLS31.FY
(SYNIOS P2720) Phosphor

15.03.2023

Dear Customer,

please find attached the **OSRAM Infonote**:

AO-IN-2022-040-I

Optimization of doping level for KY DMLN31.FY and KY DMLS31.FY (SYNIOS P2720) Phosphor

Please take note, that this customer notification is for info only and does not require customer approval.

Objective:	Optimization of Phosphor doping level
Affected products:	KY DMLN31.FY and KY DMLS31.FY
Reason for change:	Doping level of volume converter material is optimized to achieve higher brightness and improved color over temperature behavior
Description of change:	<u>New status</u> Optimized Phosphor doping level based on the same Phosphor system
Time schedule:	Updated datasheets are available
Assessment:	No change in fit, form, function and reliability of the affected products
Documentation:	Customer information package: 2_cip_AO-IN-2022-040-I

OSRAM Infonote

AO-IN-2022-040-I

Optimization of doping level for KY DMLN31.FY and
KY DMLS31.FY (SYNIOS P2720) Phosphor

Customer information package

OSR OS Q CQM AM

15.03.2023

Agenda

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AO-IN-2022-040-I

Optimization of doping level for KY DMLN31.FY and KY DMLS31.FY (SYNIOS P2720) Phosphor

Reason for change

Item	Description
Optimization of doping level	Doping level of volume converter material is optimized to achieve higher brightness and improved color over temperature behavior.

AO-IN-2022-040-I

Optimization of doping level for KY DMLN31.FY and KY DMLS31.FY (SYNIOS P2720) Phosphor

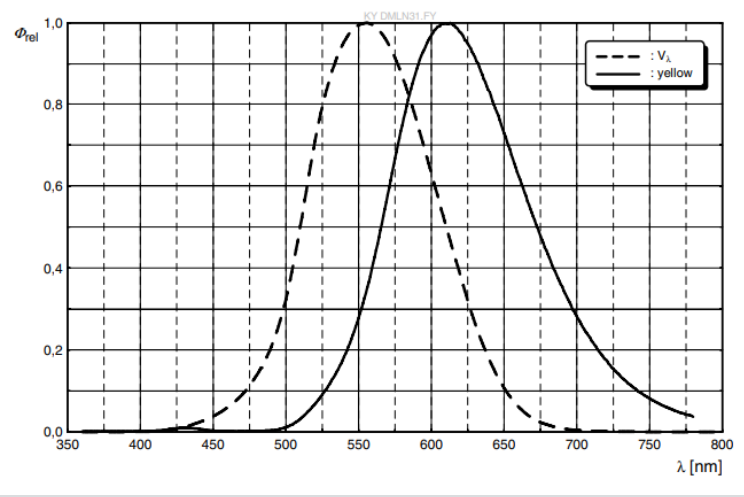
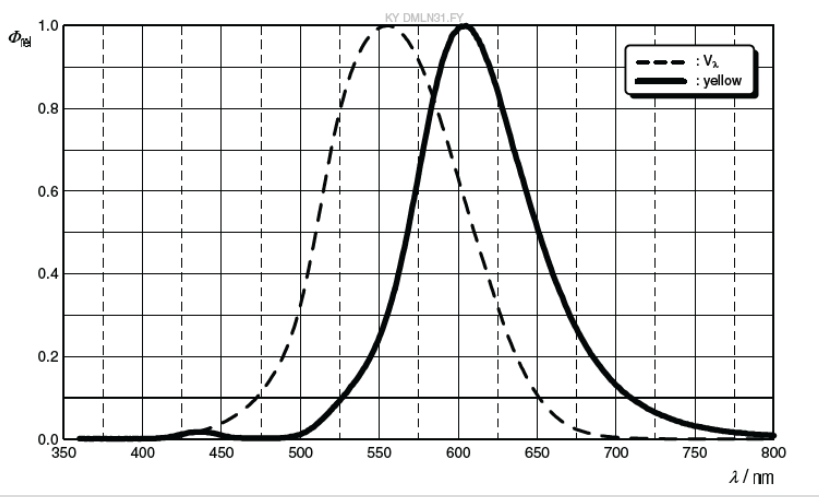
Description of change: KY DMLN31.FY

Item	Current status				New status																																																										
Ordering information	<table border="1"> <thead> <tr> <th>Type</th> <th>Luminous Flux ¹⁾ I_F = 150 mA Φ_V</th> <th colspan="2">Ordering Code</th> </tr> </thead> <tbody> <tr> <td>KY DMLN31.FY-7G7H-5F-8E8G</td> <td>22.4 ... 40.0 lm</td> <td colspan="2">Q65111A6199</td> </tr> </tbody> </table>				Type	Luminous Flux ¹⁾ I _F = 150 mA Φ _V	Ordering Code		KY DMLN31.FY-7G7H-5F-8E8G	22.4 ... 40.0 lm	Q65111A6199		<table border="1"> <thead> <tr> <th>Type</th> <th>Luminous Flux ¹⁾ I_F = 150 mA Φ_V</th> <th colspan="2">Ordering Code</th> </tr> </thead> <tbody> <tr> <td>KY DMLN31.FY-5H8H-5F-8E8G</td> <td>28.0 ... 45.0 lm</td> <td colspan="2">Q65113A6149</td> </tr> </tbody> </table>				Type	Luminous Flux ¹⁾ I _F = 150 mA Φ _V	Ordering Code		KY DMLN31.FY-5H8H-5F-8E8G	28.0 ... 45.0 lm	Q65113A6149																																								
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Optimization of doping level for KY DMLN31.FY and KY DMLS31.FY (SYNIOS P2720) Phosphor

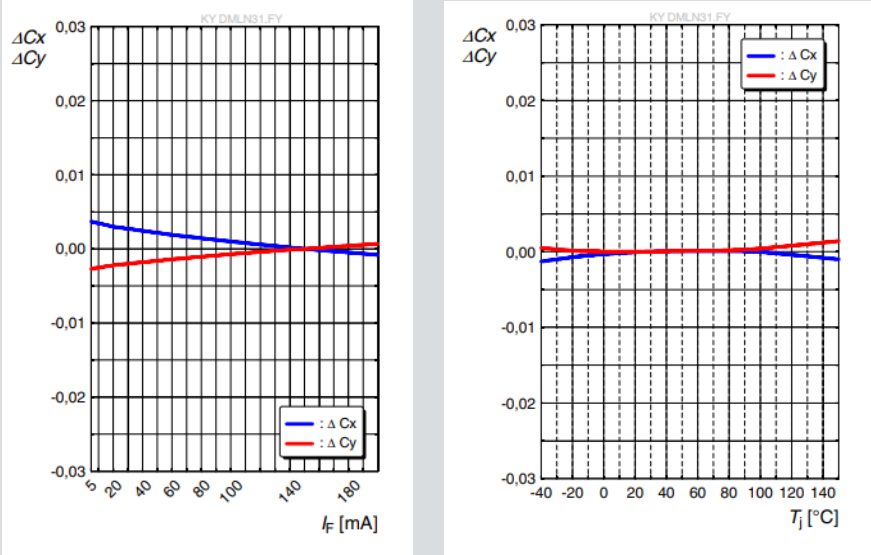
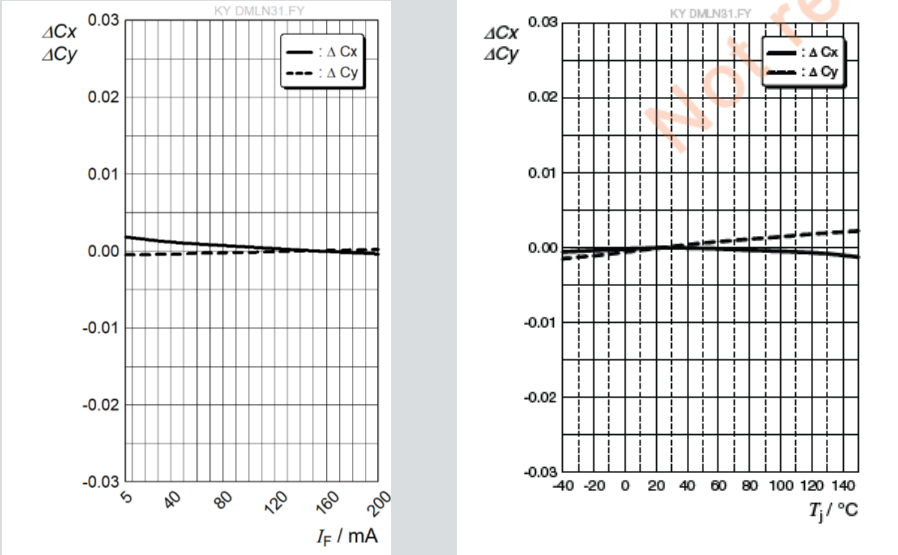
Description of change: KY DMLN31.FY

Item	Current status	New status
Radiation Characteristics	 <p>The graph shows the relative radiation flux ϕ_{rel} on the y-axis (ranging from 0.0 to 1.0) against the wavelength λ in nm on the x-axis (ranging from 350 to 800). Two curves are plotted: a dashed line for V_{λ} and a solid line for 'yellow'. The V_{λ} curve peaks at approximately 560 nm with a relative flux of 1.0. The 'yellow' curve peaks at approximately 610 nm with a relative flux of 1.0. Vertical dashed lines are present at 350, 400, 450, 500, 550, 600, 650, 700, 750, and 800 nm.</p>	 <p>The graph shows the relative radiation flux ϕ_{rel} on the y-axis (ranging from 0.0 to 1.0) against the wavelength λ in nm on the x-axis (ranging from 350 to 800). Two curves are plotted: a dashed line for V_{λ} and a solid line for 'yellow'. The V_{λ} curve peaks at approximately 560 nm with a relative flux of 1.0. The 'yellow' curve peaks at approximately 610 nm with a relative flux of 1.0. Vertical dashed lines are present at 350, 400, 450, 500, 550, 600, 650, 700, 750, and 800 nm.</p>

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Optimization of doping level for KY DMLN31.FY and KY DMLS31.FY (SYNIOS P2720) Phosphor

Description of change: KY DMLN31.FY

Item	Current status	New status
Chromaticity Coordinate Shift		

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Optimization of doping level for KY DMLN31.FY and KY DMLS31.FY (SYNIOS P2720) Phosphor

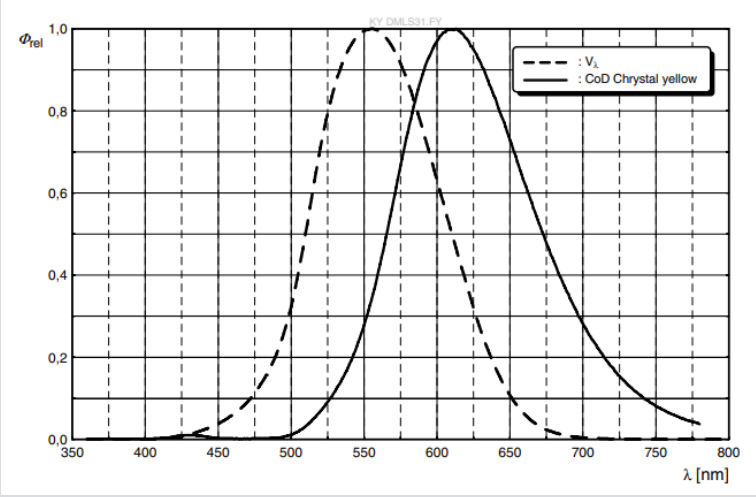
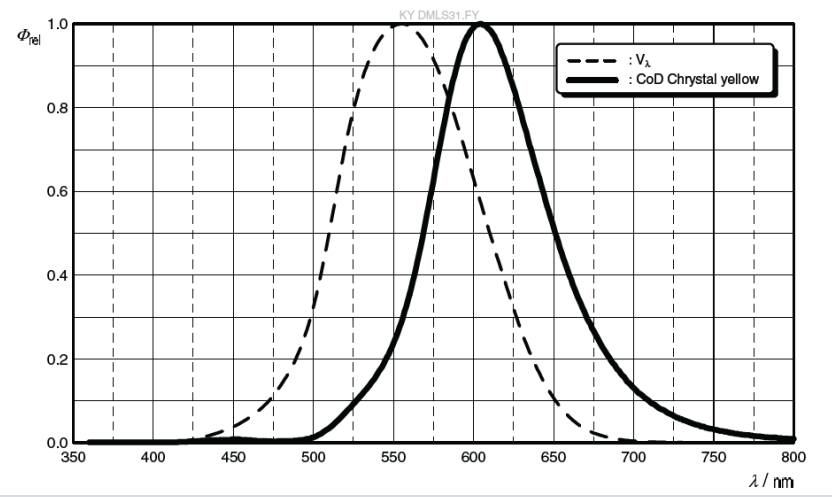
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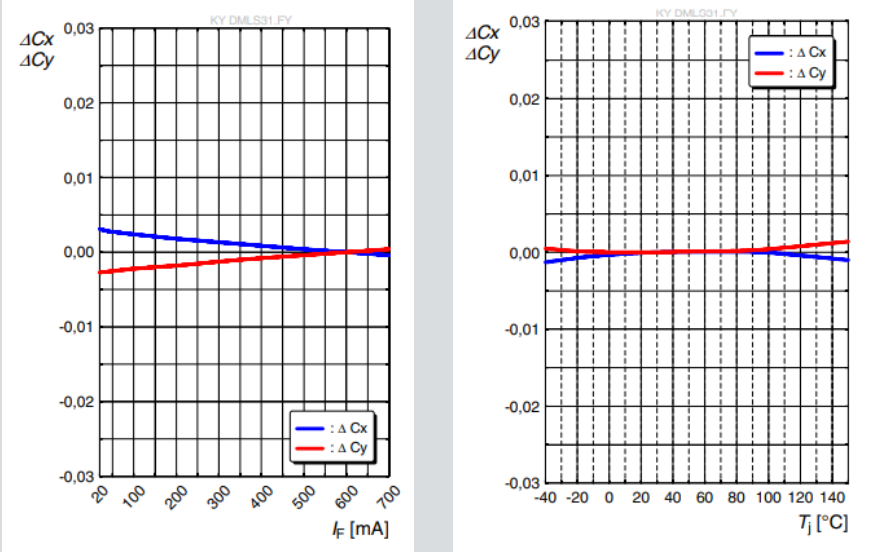
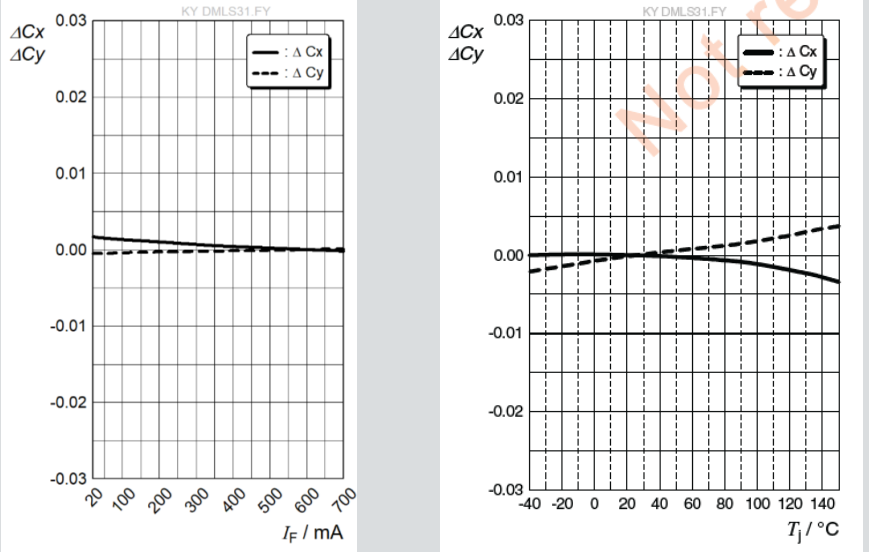
Description of change: KY DMLS31.FY

Item	Current status	New status
Radiation Characteristics	 <p>The graph shows the relative radiation flux ϕ_{rel} on the y-axis (ranging from 0.0 to 1.0) against the wavelength λ in nm on the x-axis (ranging from 350 to 800). Two curves are plotted: a dashed line for V_{λ} and a solid line for CoD Chrystal yellow. The V_{λ} curve peaks at approximately 560 nm, and the CoD Chrystal yellow curve peaks at approximately 600 nm. The title of the graph is 'KY DMLN31.FY'.</p>	 <p>The graph shows the relative radiation flux ϕ_{rel} on the y-axis (ranging from 0.0 to 1.0) against the wavelength λ in nm on the x-axis (ranging from 350 to 800). Two curves are plotted: a dashed line for V_{λ} and a solid line for CoD Chrystal yellow. The V_{λ} curve peaks at approximately 560 nm, and the CoD Chrystal yellow curve peaks at approximately 600 nm. The title of the graph is 'KY DMLS31.FY'.</p>

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Optimization of doping level for KY DMLN31.FY and KY DMLS31.FY (SYNIOS P2720) Phosphor

Description of change: KY DMLS31.FY

Item	Current status	New status
Chromaticity Coordinate Shift	 <p>The current status section contains two graphs. The first graph, titled 'KY DMLS31.FY', plots chromaticity coordinate shifts ΔC_x (blue line) and ΔC_y (red line) against forward current I_F [mA]. The x-axis ranges from 20 to 700 mA, and the y-axis ranges from -0.03 to 0.03. ΔC_x starts at approximately 0.003 at 20 mA and decreases to 0.00 at 700 mA. ΔC_y starts at approximately -0.003 at 20 mA and increases to 0.00 at 700 mA. The second graph, titled 'KY DMLN31.FY', plots ΔC_x (blue line) and ΔC_y (red line) against junction temperature T_j [°C]. The x-axis ranges from -40 to 140 °C, and the y-axis ranges from -0.03 to 0.03. ΔC_x starts at approximately -0.001 at -40 °C and decreases to -0.002 at 140 °C. ΔC_y starts at approximately 0.00 at -40 °C and increases to 0.002 at 140 °C.</p>	 <p>The new status section contains two graphs. The first graph, titled 'KY DMLS31.FY', plots chromaticity coordinate shifts ΔC_x (solid black line) and ΔC_y (dashed black line) against forward current I_F [mA]. The x-axis ranges from 20 to 700 mA, and the y-axis ranges from -0.03 to 0.03. ΔC_x starts at approximately 0.002 at 20 mA and decreases to 0.00 at 700 mA. ΔC_y starts at approximately -0.001 at 20 mA and increases to 0.00 at 700 mA. The second graph, titled 'KY DMLS31.FY', plots ΔC_x (solid black line) and ΔC_y (dashed black line) against junction temperature T_j [°C]. The x-axis ranges from -40 to 140 °C, and the y-axis ranges from -0.03 to 0.03. ΔC_x starts at approximately 0.00 at -40 °C and decreases to -0.005 at 140 °C. ΔC_y starts at approximately -0.002 at -40 °C and increases to 0.005 at 140 °C.</p>

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Optimization of doping level for KY DMLN31.FY and KY DMLS31.FY (SYNIOS P2720) Phosphor

Time schedule

Time schedule	
Intended Start of Introduction	Updated datasheets are available (new version: 1.8)

Sensing is life

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Material (Q-no.)	Q Description	Device Family	Brand	Sub Brand	P1 Product line	P2 Sub product line	Status
Q65112A6242	KY DMLN31.FY-5H6H-5F-8E8G-150-R18-HAN	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A8887	KY DMLN31.FY-5H6H-5F-8E8G-150-R18-VAR	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A8381	KY DMLN31.FY-5H6H-5F-8E8G-150-R18-Z-XX	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A3968	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-AL	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A2722	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-GW	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A7597	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-HE	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A5769	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-HV	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A5290	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-LM	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A5927	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-MAG	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A1949	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-SMR	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A0004	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-TAY	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A3144	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-VAR	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A3452	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-VEN	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A8798	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-XIN	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A4161	KY DMLN31.FY-5H7H-5F-8E8G-150-R18-Z	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A0385	KY DMLN31.FY-6H7H-5F-8E8G-150-R18-HAN	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A6341	KY DMLN31.FY-6H7H-5F-8E8G-150-R18-Z-HE	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A8104	KY DMLN31.FY-6H7H-5F-8E8G-150-R18-Z-XX	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A0592	KY DMLN31.FY-7G5H-5F-8E8G-150-R18-HE	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A2431	KY DMLN31.FY-7G5H-5F-8E8G-150-R18-HV	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65111A6199	KY DMLN31.FY-7G7H-5F-8E8G-150-R18	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A7558	KY DMLN31.FY-7G7H-5F-8E8G-150-R18-Z-OL	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65111A9731	KY DMLN31.FY-8G5H-5F-1-150-R18-Z	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A3772	KY DMLN31.FY-8G6H-5F-8E8F-150-R18	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A2710	KY DMLN31.FY-8G6H-5F-8E8G-150-R18-HE	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A2570	KY DMLN31.FY-8G6H-5F-8E8G-150-R18-HV	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A2123	KY DMLN31.FY-8G6H-5F-8E8G-150-R18-LM	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A3143	KY DMLN31.FY-8G6H-5F-8E8G-150-R18-VAR	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A3957	KY DMLN31.FY-8G6H-5F-8E8G-150-R18-VEN	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A2394	KY DMLN31.FY-8G6H-5F-8E8G-150-R18-VL	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65111A9343	KY DMLN31.FY-8G6H-5F-8E8G-150-R18-XX	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A1018	KY DMLN31.FY-8G7H-5F-8E8F-150-R18-XX	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A7052	KY DMLN31.FY-8G7H-5F-8E8G-150-R18-SMR	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A7171	KY DMLN31.FY-5L3-5F-8E8G-600-R18-HV	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A4706	KY DMLS31.FY-5L3-5F-8E8G-600-R18-VL	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A3375	KY DMLS31.FY-5L7L-5F-8E8G-600-R18	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A0690	KY DMLS31.FY-6L2-5F-8E8G-600-R18-XX	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A9797	KY DMLS31.FY-6L3-5F-8E8G-600-R18	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A5299	KY DMLS31.FY-6L3-5F-8E8G-600-R18-LM	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A8496	KY DMLS31.FY-6L3-5F-8E8G-600-R18-XIN	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A9516	KY DMLS31.FY-6L3-5F-8E8G-600-R18-Z-ZKW	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A7820	KY DMLS31.FY-6L8L-5F-8E8G-600-R18-Z-AL	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A3771	KY DMLS31.FY-6LF2-5F-8E8G-600-R18-HAN	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A1605	KY DMLS31.FY-6LF2-5F-8E8G-600-S-XX	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A4881	KY DMLS31.FY-6LF7LF-5F-8E8G-600-R18-VL	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A2450	KY DMLS31.FY-7KF5LF-5F-8E8G-600-R18-VAR	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65111A6197	KY DMLS31.FY-7KF7L-5F-8E8G-600-R18	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A2117	KY DMLS31.FY-8KF3-5F-8E8G-600-R18-HV	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A2430	KY DMLS31.FY-8KF6LF-5F-8E8G-600-R18	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A3911	KY DMLS31.FY-Z6L5-5F-8E8G-600-R18-VL	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65113A3936	KY DMLS31.FY-Z6L5-5F-8E8G-600-R18-XX	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A4952	KY DMLS31.FY-Z8KF5-5F-8E8G-600-R18-VAR	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A4431	KY DMLS31.FY-Z8KF5-5F-8E8G-600-R18-VL	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A3956	KY DMLS31.FY-Z8KF6-5F-8E8G-600-S	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A9478	KY DMLS31.FY-Z8KF8-5F-8E8G-600-R18	KY DMLS31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	10
Q65112A7910	KY DMLN31.FY-8G5H-5F-8E8G-150-R18-XIN	KY DMLN31_Fx	SYNIOS	P2720	Automotive	Automotive exterior	1