

Light is OSRAM



15.03.2017

Dear Customer,

please find attached our OSRAM OS PCN:

PCN OS-PCN-2017-009-A Introduction of 6" ThinFilm (Ge) for High Power Brands

Important information for your attention:

Please respond to this PCN by indicating your decision on the approval form, sign it and return it your sales partner before **15.04.2017**.

OSRAM OS aligns with the widely-recognized JEDEC STANDARD "JESD46-B", which stipulates: "Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change".

Your prompt reply will help OSRAM OS to assure a smooth and well executed transition. If OSRAM OS does not hear from your side by the due date, we will assume your (if you are a Distributor: and your customer's) full acceptance to this proposed change and its implementation.

Your attention and response to this matter is highly appreciated.

Please direct your inquiry to your local Sales office.

PCN OS-PCN-2017-009-A

Introduction of 6" ThinFilm (Ge) for High Power Brands

Subject of change:	Wafer size will be changed to 6"
Affected products	LR H9PP, LS H9PP, LA H9PP, LA H9GP, LR H9GP, LJ CKBP, LA W5SM, LR W5SM;
Reason for change:	Secure continuous supply – lower risk of allocation
Description of change	<u>Current status</u> Wafer diameter: 4" (100mm)
	<u>New status</u> Wafer diameter: 6" (150 mm)
	For details please refer to the customer information package.
Product identification	New material number
Time schedule:	Final qualification report (1000hrs) available
	Samples available 15.03.2017
	Production release 15.04.2017
	Start of delivery 01.05.2017*) *) or earlier if released by customer
	Last time order date 01.08.2017**) **) last date for ordering products of current status

Assessment:

No change in fit / form / function or reliability.
LEDs with chips from 4" and 6" wafer production are mixable.

Customer approval form

PCN OS-PCN-2017-009-A

Introduction of 6" ThinFilm (Ge) for High Power Brands

Please list product(s) affected in your application(s):

Please check the appropriate box below:

Agreement: We agree with the proposed change and accept start of the shipment upon availability of the new version.

Objections: We have objections:

Information requested: We need the following information:

Samples requested: We need the following samples:

Sender

Company:

Address / Location:

Signature:

Date:

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GmbH

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OSRAM
Opto Semiconductors



PCN OS-PCN-2017-009-A
Introduction of 6" ThinFilm (Ge) for High Power Brands
Customer information package

OS QM CQM PS | 15.03.2017

Light is OSRAM

Overview

- Secure continuous supply – lower risk of allocation
- Increase automotive capacity – growing market demand
- In order to increase the capacity for the ThinFilm Chip Family and to achieve a homogeneity within the Production the wafer size will be changed to 6" based on Ge carrier
- LEDs with chips from 4" and 6" wafer production are mixable




- no change in fit / form / function or reliability

OS-PCN-2017-009-A

Introduction of 6" ThinFilm (Ge) for High Power Brands



Description of change

Change item	Current status	New status
Wafer Production Line	4" 	6"
Wafer Substrate (no change)	Germanium carrier	Germanium carrier
Chip Size/Design (no change)	1mm ² 	1mm ² 
Chip Height (no change)	190 μm	190 μm

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Introduction of 6" ThinFilm (Ge) for High Power Brands



List of affected products

Golden Dragon	OSLON Black Flat	OSLON Black	OSLON Signal
LA W5SM	LR H9PP	LA H9GP	LJ CKBP
LR W5SM	LS H9PP	LR H9GP	
	LA H9PP		

OS-PCN-2017-009-A

Introduction of 6" ThinFilm (Ge) for High Power Brands



PCN Samples

Golden Dragon	OSLON Black Flat	OSLON Black	OSLON Signal
LA W5SM	LR H9PP	LA H9GP	LJ CKBP
LR W5SM	LS H9PP	LR H9GP	
	LA H9PP		



on request
available in March 2017

Qualification Plan

Test item	Test condition	Test duration
RTSH	260°C Reflow soldering	3x ¹⁾
T&HB low Current	85°C/85% r.H., If=50mA	1000h ¹⁾
T&HB high Current	85°C/85% r.H., If=1000mA, 30min On/Off	1000h ¹⁾
SSLT min temp	Ta=-40°C, If=1000mA	1000h ¹⁾
SSLT max current	Ta=100°C, If=1000mA	1000h ¹⁾
SSLT max temp	Ta=125°C, If acc Tjmax=150°C	1000h ¹⁾
PLT	Ta=55°C, tp=100us, D=3%, I=2500mA	1000h ¹⁾
T&HS	85°C/85% r.H.	1000h ¹⁾
TC	-40°C/125°C	1000c ¹⁾
TSK	-50°C/150°C (overstress)	1000c ¹⁾

- **Devices under test (brands):** ¹⁾OSLON Black Flat

Qualification Plan

Test item	Test condition	Test duration
PTC	-40°C/125°C, ton/toff=4min; If=1000mA	1000c ¹⁾
ESD HBM	8000V	8000V ¹⁾
ESD MM	400V	400V ¹⁾
Hydrogen sulfide test H ₂ S	40°C 90%rh 15ppm H ₂ S	336h ¹⁾
Gas corrosion Test	25°C 75% r.h.	500h ¹⁾

- **Devices under test (brands):** ¹⁾OSLON Black Flat
- **Qualification report available**

Time schedule

- Qualification report available: 15.03.2017
- Production release : 15.04.2017
- Start of delivery: 01.05.2017 *)
*) or earlier if released by customer
- Last time order date: 01.08.2017**)
**) last date for ordering products of current status

QUALITY
FIRST

Thank you.

Products Affected by Product Change Notification

Number: OS-PCN-2017-009-A

Name: Introduction of 6" ThinFilm (Ge) for High Power Brands

Release Date: 2/1/2017

Response Due Date: 4/20/2017

Implementation Date: 5/1/2017

<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>	
LA H9GP	Q65111A0913	LA H9GP-JYKY-24-1-350-R33-Z	LA H9GP-JYKY-24-1-Z	
	Q65111A1982	LA H9GP-JYKY-24-1-350-R18-Z	LA H9GP-JYKY-24-1-Z	
	Q65111A2226	LA H9GP-JYKY-23-1-350-R33-Z	LA H9GP-JYKY-23-1	
	Q65111A2770	LA H9GP-JZKY-24-1-350-R18-Z-HE	LA H9GP-JZKY-24-1-Z-HE	
	Q65111A3002	LA H9GP-JYKY-23-1-350-R18	LA H9GP-JYKY-23	
	Q65111A3216	LA H9GP-JZKY-24-1-350-R18-XX	LA H9GP-JZKY-24-1-Z-XX	
	Q65111A3217	LA H9GP-JZKY-24-1-350-R33-Z-XX	LA H9GP-JZKY-24-1-L-Z-XX	
	Q65111A4201	LA H9GP-JYKX-24-1-350-R33-Z-HE	LA H9GP-JYKX-24-1-Z-HE	
	Q65111A4393	LA H9GP-JZKY-24-1-350-R33-Z-LM	LA H9GP-JZKY-24-1-Z-LM	
	Q65111A5555	LA H9GP-KXKY-24-1-350-R18-Z-VL	LA H9GP-KXKY-24-1-Z-VL	
	Q65111A5810	LA H9GP-BYCX-1-1+JZKY-24-1-350-R18-Z-	LA H9GP-BYCX-1-1+JZKY-24-1-Z-HAN	
	Q65111A5857	LA H9GP-JZKY-24-1-350-R33-Z-VAR	LA H9GP-JZKY-24-1-Z-VAR	
	Q65111A5945	LA H9GP-KXKZ-24-1-350-R18-Z-BAY	LA H9GP-KXKZ-24-1-Z-BAY	
	Q65111A5994	LA H9GP-JZKX-24-1-350-R33-Z-HAN	LA H9GP-JZKX-24-1-Z-HAN	
	Q65111A6010	LA H9GP-KXKY-24-1-350-R33-Z-HAN	LA H9GP-KXKY-24-1-Z-HAN	
	Q65111A6247	LA H9GP-BYCX-1-C2E2+JZKX-24-1-A-R18-	LA H9GP-BYCX-1-C2E2+JZKX-24-1-HAN	
	Q65111A6470	LA H9GP-KXKZ-24-1-350-R33-Z-XX	LA H9GP-KXKZ-24-1-Z-XX	
	Q65111A7183	LA H9GP-JYKX-24-1-350-R18-Z-XX	LA H9GP-JYKX-24-1-Z-XX	
	Q65111A7373	LA H9GP-JZKX-24-1-350-R18-Z-VEN	LA H9GP-JZKX-24-1-Z-VEN	
	Q65111A7728	LA H9GP-KXKZ-24-1-350-R18-Z-XX	LA H9GP-KXKZ-24-1-Z-XX	
	Q65111A8032	LA H9GP-JYKX-24-1-350-R33-Z-BAY	LA H9GP-JYKX-24-1-L-Z-BAY	
	Q65111A8187	LA H9GP-KXKZ-24-1-350-R18-Z-HE	LA H9GP-KXKZ-24-1-Z-HE	
	Q65111A8874	LA H9GP-JYKZ-24-1-350-R18-Z	LA H9GP-JYKZ-24-1	
	Q65111A9396	LA H9GP-KXKZ-24-1-350-R18-Z-VL	LA H9GP-KXKZ-24-1-Z-VL	
	Q65112A0320	LA H9GP-JZKY-24-H29C-350-R33-XX	LA H9GP-JZKY-24-H29C-L-XX	
	Q65112A0876	LA H9GP-KXKY-24-9B9C-350-R18-Z-HE	LA H9GP-KXKY-24-9B9C-Z-HE	
	Q65112A0877	LA H9GP-KXKZ-24-9B9C-350-R18-Z-AL	LA H9GP-KXKZ-24-9B9C-Z-AL	
	Q65112A1564	LA H9GP-KY-24-1-350-R18-Z-XX	LA H9GP-KY-24-1-XX	
	Q65112A1582	LA H9GP-JZKY-24-9B9C-350-R33-Z-HE	LA H9GP-JZKY-24-9B9C-L-Z-HE	
	Q65112A1764	LA H9GP-KYLX-24-9B9C-350-R18-Z-HAN	LA H9GP-KYLX-24-9B9C-Z-HAN	
	Q65112A1997	LA H9GP-KXKY-24-9B9C-350-R18-Z-XX	LA H9GP-KXKY-24-9B9C-Z-XX	
	Q65112A2029	LA H9GP-KXKZ-23-H29B-350-R33-Z-XX	LA H9GP-KXKZ-23-H29B-Z-XX	
	Q65112A2212	LA H9GP-JZKY-24-1-350-R18-Z-BAY	LA H9GP-JZKY-24-1-Z-BAY	
	LA H9PP	Q65111A4306	LA H9PP-JXKX-24-1-350-R18-Z	LA H9PP-JXKX-24-1
		Q65111A5655	LA H9PP-JZKY-24-1-350-R18-Z-VL	LA H9PP-JZKY-24-1-Z-VL
		Q65111A5671	LA H9PP-KXKZ-24-1-350-R18-Z-HE	LA H9PP-KXKZ-24-1-Z-HE
		Q65111A5809	LA H9PP-BYCX-1-1+JXKY-24-1-A-R18-Z	LA H9PP-BYCX-1-1+JXKY-24-1-Z
		Q65111A5885	LA H9PP-JYKX-24-1-350-R18-Z-SK	LA H9PP-JYKX-24-1-Z-SK
		Q65111A6030	LA H9PP-JZKY-24-1-350-R18-Z-XIN	LA H9PP-JZKY-24-1-Z-XIN
		Q65111A6031	LA H9PP-JZKY-24-1-350-R18-Z-VAR	LA H9PP-JZKY-24-1-Z-VAR

<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>
LA H9PP	Q65111A6032	LA H9PP-JZKY-24-1-350-R18-Z-AL	LA H9PP-JZKY-24-1-Z-AL
	Q65111A6325	LA H9PP-JZKY-24-1-350-R18-Z-XX	LA H9PP-JZKY-24-1-Z-XX
	Q65111A6612	LA H9PP-JZKY-24-1-350-R18-Z-HE	LA H9PP-JZKY-24-1-Z-HE
	Q65111A6613	LA H9PP-JZKX-24-1-350-R18-Z-HAN	LA H9PP-JZKX-24-1-Z-HAN
	Q65111A6623	LA H9PP-KXKY-24-1-350-R18-Z-HAN	LA H9PP-KXKY-24-1-Z-HAN
	Q65111A6714	LA H9PP-KXKZ-24-1-350-R18-Z-VL	LA H9PP-KXKZ-24-1-Z-VL
	Q65111A6992	LA H9PP-JYKX-24-1-350-R18-Z-AL	LA H9PP-JYKX-24-1-Z-AL
	Q65111A6993	LA H9PP-JTKS-24-1-350-R18-Z-KO	LA H9PP-JTKS-24-1-Z-KO
	Q65111A6994	LA H9PP-JUKQ-24-1-350-R18-Z-HAN	LA H9PP-JUKQ-24-1-Z-HAN
	Q65111A6995	LA H9PP-8J8K-24-1-350-R18-Z-VL	LA H9PP-8J8K-24-1-Z-VL
	Q65111A7408	LA H9PP-JZKX-24-1-350-R18-Z-VEN	LA H9PP-JZKX-24-1-Z-VEN
	Q65111A7510	LA H9PP-JUKT-24-1-350-R18-Z-VL	LA H9PP-JUKT-24-1-VL
	Q65111A7545	LA H9PP-CXCZ-1-1+JZKY-24-1-A-R18-Z-A	LA H9PP-CXCZ-1-1+JZKY-24-1-AL
	Q65111A7718	LA H9PP-JTKS-24-1-350-R18-Z-VL	LA H9PP-JTKS-24-1-Z-VL
	Q65111A7734	LA H9PP-JZKX-24-1-350-R18-Z-XX	LA H9PP-JZKX-24-1-XX
	Q65111A7827	LA H9PP-CXCZ-1-1+JZKY-24-1-A-R18-Z-B	LA H9PP-CXCZ-1-1+JZKY-24-1-BAY
	Q65111A7886	LA H9PP-CXCZ-1-1+JZKY-24-1-A-R18-Z-K	LA H9PP-CXCZ-1-1+JZKY-24-1-A-KO
	Q65111A8106	LA H9PP-JZKY-24-J3M3-350-R18-Z-AL	LA H9PP-JZKY-24-J3M3-Z-AL
	Q65111A8107	LA H9PP-JZKX-24-J3Q3-350-R18-Z-HAN	LA H9PP-JZKX-24-J3Q3-Z-HAN
	Q65111A8276	LA H9PP-JTKS-24-1-350-R18-Z-AL	LA H9PP-JTKS-24-1-Z-AL
	Q65111A8316	LA H9PP-CXCZ-1-1+JZKX-24-1-A-R18-Z-K	LA H9PP-CXCZ-1-1+JZKX-24-1-Z-KO
	Q65111A8628	LA H9PP-KXKZ-24-1-350-R18-Z-SK	LA H9PP-KXKZ-24-1-Z-SK
	Q65111A8934	LA H9PP-JXKY-24-1-350-R18-Z	LA H9PP-JXKY-24-1
	Q65111A8935	LA H9PP-JYKX-23-1-350-R18-Z	LA H9PP-JYKX-23-1
	Q65111A9323	LA H9PP-JUKQ-24-1-350-R18-Z-SK	LA H9PP-JUKQ-24-1-SK
	Q65111A9372	LA H9PP-JZKX-24-J3T3-350-R18-Z-VL	LA H9PP-JZKX-24-J3T3-Z-VL
	Q65111A9829	LA H9PP-JZKY-24-J3Q3-350-R18-Z-SK	LA H9PP-JZKY-24-J3Q3-Z-SK
	Q65111A9992	LA H9PP-JZKY-24-1-350-R18-Z-XX	LA H9PP-JZKY-24-1-XX
	Q65112A0097	LA H9PP-JZKY-24-G2Q3-350-R18-Z-STA	LA H9PP-JZKY-24-G2Q3-Z-STA
	Q65112A0517	LA H9PP-KXKZ-24-J3M3-350-R18-Z-AL	LA H9PP-KXKZ-24-J3M3-Z-AL
	Q65112A1258	LA H9PP-JZKY-23-J3T3-350-R18-Z-MAG	LA H9PP-JZKY-23-J3T3-Z-MAG
	Q65112A1690	LA H9PP-JTKS-24-G2M3-350-R18-Z-STA	LA H9PP-JTKS-24-G2M3-Z-STA
	Q65112A2047	LA H9PP-KXKZ-24-J3T3-350-R18-Z-AL	LA H9PP-KXKZ-24-J3T3-Z-AL
	Q65112A2067	LA H9PP-JZKY-23-1-350-R18-Z-SK	LA H9PP-JZKY-23-1-SK
LA W5SM	Q65110A6385	LA W5SM-HZJZ-2-1-400-R18-Z-XX	LA W5SM-HZJZ-2-Z-XX
	Q65110A7521	LA W5SM-JYKX-24-1-400-R18-Z	LA W5SM-JYKX-24-Z
	Q65110A9554	LA W5SM-JYJZ-24-1-400-R18-ZG-HE	LA W5SM-JYJZ-24-ZG-HE
	Q65110A9555	LA W5SM-JYJZ-23-1-400-R18-Z-XX	LA W5SM-JYJZ-23-Z
	Q65110A9589	LA W5SM-JYJZ-24-1-400-R18-Z	LA W5SM-JYJZ-24-Z
	Q65110A9649	LA W5SM-JXJY-23-1-400-R18-ZG-LM	LA W5SM-JXJY-23-1-400-R18-ZG-LM
	Q65110A9924	LA W5SM-JXKX-24-1-400-R18-ZG-LM	LA W5SM-JXKX-24-ZG-LM
	Q65111A0697	LA W5SM-JZKY-24-1-400-R18-Z-HE	LA W5SM-JZKY-24-Z-HE
	Q65111A0809	LA W5SM-JZKY-24-1-400-R18-Z-VL	LA W5SM-JZKY-24-Z-VL
	Q65111A2117	LA W5SM-JZKY-24-1-400-R18-Z-VAR	LA W5SM-JZKY-24-Z-VAR
	Q65111A2151	LA W5SM-JZKX-24-1-400-R18-Z-HE	LA W5SM-JZKX-24-Z-HE
	Q65111A2214	LA W5SM-JZKY-24-1-400-R18-Z-AL	LA W5SM-JZKY-24-1-Z-AL
	Q65111A2606	LA W5SM-JYKY-24-1-400-R18-Z	LA W5SM-JYKY-24-1
	Q65111A2848	LA W5SM-JZKY-24-1-400-R18-Z-XX	LA W5SM-JZKY-24-1-Z-XX
	Q65111A3164	LA W5SM-JYKX-24-1-400-R18-Z-AL	LA W5SM-JYKX-24-1-Z-AL

<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>
LA W5SM	Q65111A4708	LA W5SM-KXKY-24-1-400-R18-Z-VAR	LA W5SM-KXKY-24-1-Z-VAR
	Q65111A5035	LA W5SM-KXKZ-24-1-400-R18-Z-AL	LA W5SM-KXKZ-24-1-Z-AL
	Q65111A5041	LA W5SM-KXKZ-24-1-400-R18-Z-HAN	LA W5SM-KXKZ-24-1-Z-HAN
	Q65111A5236	LA W5SM-KXKZ-24-1-400-R18-Z-VL	LA W5SM-KXKZ-24-1-Z-VL
	Q65111A6365	LA W5SM-JZKX-24-1-400-R18-Z-HAN	LA W5SM-JZKX-24-1-HAN
	Q65111A7101	LA W5SM-JZKY-24-1-400-R18-Z-VEN	LA W5SM-JZKY-24-1-Z-VEN
	Q65111A8503	LA W5SM-HZJY-34-1-400-R18-Z-HAN	LA W5SM-HZJY-34-1-Z-HAN
	Q65112A0715	LA W5SM-JYKX-24-1-400-R18-Z-HE	LA W5SM-JYKX-24-1-Z-HE
LJ CKBP	Q65111A4878	LJ CKBP-JXKZ-27-1-350-R18-Z	LJ CKBP-JXKZ-27-1
	Q65111A4908	LJ CKBP-JZKX-34-1-350-R18-Z-XX	LJ CKBP-JZKX-34-1-XX
	Q65111A5609	LJ CKBP-JZKZ-25-1-350-R18-Z	LJ CKBP-JZKZ-25-1-Z
	Q65111A5610	LJ CKBP-JYKY-36-1-350-R18-Z	LJ CKBP-JYKY-36-1-Z
	Q65111A5611	LJ CKBP-JXKX-47-1-350-R18-Z	LJ CKBP-JXKX-47-1-Z
	Q65111A5924	LJ CKBP-KXKZ-47-1-350-R18-Z	LJ CKBP-KXKZ-47-1-Z
	Q65111A6907	LJ CKBP-HXJY-67-1-350-R18-Z-XX	LJ CKBP-HXJY-67-1-XX
	Q65111A6925	LJ CKBP-KXKZ-35-1-350-R18-Z-XX	LJ CKBP-KXKZ-35-1-Z-XX
	Q65111A7134	LJ CKBP-JZKX-34-J3Q3-350-R18-SIE	LJ CKBP-JZKX-34-J3Q3-SIE
	Q65111A7152	LJ CKBP-KXKZ-3-1-350-R18-Z-XX	LJ CKBP-KXKZ-3-1-XX
	Q65111A7230	LJ CKBP-JZKY-34-J3M3-350-R18-Z-XX	LJ CKBP-JZKY-34-J3M3-XX
	Q65111A7463	LJ CKBP-KSKU-23-1-350-R18-XX	LJ CKBP-KSKU-23-1-XX
	Q65111A7464	LJ CKBP-KRKT-23-1-350-R18-XX	LJ CKBP-KRKT-23-1-XX
	Q65111A7533	LJ CKBP-JYKY-45-1-350-R18-Z-XX	LJ CKBP-JYKY-45-1-XX
	Q65111A8305	LJ CKBP-JZKZ-45-1-350-R18-Z-XX	LJ CKBP-JZKZ-45-1-XX
	Q65111A8640	LJ CKBP-JZKX-4-1-350-R18-Z-SIE	LJ CKBP-JZKX-4-1-SIE
	Q65111A8786	LJ CKBP-JZKY-45-J3Q3-350-R18-Z-XX	LJ CKBP-JZKY-45-J3Q3-XX
	Q65111A9188	LJ CKBP-JXKX-46-1-350-R18-Z	LJ CKBP-JXKX-46-1-Z
	Q65111A9390	LJ CKBP-JZKY-45-1-350-R18-Z-XX	LJ CKBP-JZKY-45-1-Z-XX
	Q65111A9705	LJ CKBP-JYKX-46-1-350-R18-Z-ADB	LJ CKBP-JYKX-46-1-ADB
Q65112A0755	LJ CKBP-HYKX-47-1-350-R18-Z	LJ CKBP-HYKX-47-1	
Q65112A1879	LJ CKBP-KXKZ-34-1-350-R18-Z-SF	LJ CKBP-KXKZ-34-1-Z-SF	
LR H9GP	Q65111A0914	LR H9GP-HZKX-1-1-350-R33-Z	LR H9GP-HZKX-1-1-Z
	Q65111A1707	LR H9GP-HZKX-1-1-350-R18-Z	LR H9GP-HZKX-1-1-Z
	Q65111A4112	LR H9GP-HZJY-P1-1-350-R18-Z-XX	LR H9GP-HZJY-P1-1-Z-XX
	Q65111A6584	LR H9GP-JYKX-1-1-350-R18-Z-ADB	LR H9GP-JYKX-1-1-ADB
	Q65111A7370	LR H9GP-JXJZ-1-1-350-R18-Z-BAY	LR H9GP-JXJZ-1-1-Z-BAY
	Q65112A1844	LR H9GP-JX-1-9B9C-350-R18-Z-BAY	LR H9GP-JX-1-9B9C-Z-BAY
	Q65112A2098	LR H9GP-JXJZ-P1-1-350-R18-Z-BAY	LR H9GP-JXJZ-P1-1-BAY
	Q65112A2099	LR H9GP-JX-P1-1-350-R18-Z-BAY	LR H9GP-JX-P1-1-BAY
LR H9PP	Q65111A4286	LR H9PP-HZJZ-1-1-350-R18-Z	LR H9PP-HZJZ-1-1
	Q65111A5634	LR H9PP-JXJZ-1-1-350-R18-Z-HE	LR H9PP-JXJZ-1-1-Z-HE
	Q65111A5927	LR H9PP-JXJZ-1-1-350-R18-Z-VL	LR H9PP-JXJZ-1-1-Z-VL
	Q65111A8763	LR H9PP-JXJZ-1-1-350-R18-Z-XX	LR H9PP-JXJZ-1-1-Z-XX
	Q65111A8932	LR H9PP-JXJZ-1-1-350-R18-Z-AL	LR H9PP-JXJZ-1-1-Z-AL
	Q65112A0700	LR H9PP-JYJZ-1-J3T3-350-R18-Z-AL	LR H9PP-JYJZ-1-J3T3-Z-AL
	Q65112A1495	LR H9PP-JYKY-1-J3T3-350-R18-Z-AL	LR H9PP-JYKY-1-J3T3-Z-AL
LR W5SM	Q65110A9341	LR W5SM-HZJZ-1-1-400-R18-Z	LR W5SM-HZJZ-1-1-Z
	Q65110A9648	LR W5SM-HYJY-1-1-400-R18-ZG-LM	LR W5SM-HYJY-1-1-400-R18-ZG-LM
	Q65111A2216	LR W5SM-JXJZ-1-1-400-R18-Z-AL	LR W5SM-JXJZ-1-1-Z-AL
	Q65111A2604	LR W5SM-HZJZ-1-1-400-R18-Z	LR W5SM-HZJZ-1-1

<i>Product</i>	<i>QNumber</i>	<i>QNumber Description</i>	<i>Part Number</i>
LR W5SM	Q65111A3884	LR W5SM-JYKX-1-1-400-R18-Z-AL	LR W5SM-JYKX-1-1-Z-AL
	Q65111A5500	LR W5SM-JXJZ-1-1-400-R18-Z-XIN	LR W5SM-JXJZ-1-1-Z-XIN
	Q65111A7729	LR W5SM-JXJZ-1-1-400-R18-Z-XX	LR W5SM-JXJZ-1-1-XX
	Q65111A8112	LR W5SM-JXJY-1-1-400-R18-Z-AL	LR W5SM-JXJY-1-1-Z-AL
LS H9PP	Q65111A4303	LS H9PP-HYJY-1-1-350-R18-Z	LS H9PP-HYJY-1-1
	Q65111A8079	LS H9PP-HYJX-67-1-350-R18-Z-AL	LS H9PP-HYJX-67-1-Z-AL
	Q65111A8318	LS H9PP-HZ-1-1-350-R18-Z-VL	LS H9PP-HZ-1-Z-VL
	Q65111A8334	LS H9PP-HZJY-67-1-350-R18-Z-AL	LS H9PP-HZJY-67-1-Z-AL
	Q65111A9156	LS H9PP-HZJY-1-1-350-R18-Z-VAR	LS H9PP-HZJY-1-1-Z-VAR