

### **Product Change Notification - KSRA-21IPNN877**

Date:

30 Mar 2019

#### **Product Category:**

#### **Notification subject:**

CCB 3768 Final Notice: Implement Microchip Part Aging, Combination Rules, Recertification, and Label Policy for selected Microsemi products (Microsemi (LCLD, VPT, TIM and WIFI) products.

#### **Notification text:**

**PCN Status:** 

Final notification

**PCN Type:** 

Manufacturing Change

### **Microchip Parts Affected:**

Please open the attachments found in the attachments field below labeled as PCN # Affected CPN.

Note 1: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Note 2: As part of the integration process additional products may be identified that were not part of the original list.

#### **Description of Change:**

Implement Microchip Part Aging, Combination Rules, Recertification Program, and Label Policy for selected Microsemi products within the Microsemi subsidiaries Microsemi Solutions Sdn. Bhd. which includes Voice Line Circuits and Line Drivers (LCLD), Audio and Voice (VPT), Timing and Synchronization (TIM) and WLAN FEM, PA and LNA's (WiFi) Business Units

Change in Part Aging Policy

Change in Combination Rules

Change in Program

Change in Reel/Bag/Inner/Outer Shipping/MSL Labels

#### **Pre Change:**

Using Microsemi's packing process.

#### **Post Change:**

Using Microchip's packing process.

### **Pre and Post Change Summary:**

NOTE: See attached Packing Pre and Post Changes for the changes of the following.

Details		PRE CHANGE (MSCC)	POST CHANGE (Microchip)
		Shelf life 5 years	may ship parts up to 48
			months (4 years).
		Standard products over 24	
		months will require notification	For Microchip Direct and
		to the customer	Sample is 5 years
Part Aging Policy		Shipments of Low Volume products over 24 months will not require customer notification or a special Certificate of Conformance (C of C)	
	WIFI:	Can ship date codes up to 3	1
		years after recertification.	



		1 device	1 device			
		I GEVICE	T GOVIOG			
		LCLD, VPT, and TIM: 2 date	3 date codes			
		codes per reel or bulk pack				
Combination Rule	es	codes per reer or built pack	No time limit between date			
		WIFI: 2 trace codes	codes			
		between date codes				
		LCLD, VPT, and TIM: Not	Parts older than 24 months			
			(2 years)			
		WIFI: Recertification of				
		solderability at 3 years and	It may include one or more of			
		solderability and electrical test	• .			
		at 5 years.	retest, rescanning and			
			repacking of parts.			
		Storage time per package:				
		Plastic Packago:				
		Plastic Package:				
Recertification Pr	rogram	Physical / Mechanical - 3				
		years by D/C				
		yours by bro				
		Electrical - 5 years by D/C				
		Hermetic Package:				
		Physical / Mechanical - 3				
		years by D/C				
		Electrical - 3 years by D/C Microsemi branded labels	Microchip branded labels			
		WILCIOSEITII DIAITUEU IADEIS	IMPORTUP DIATION IADRIS			
Reel/Bag/Inner/O		without bar code	with 2D barcode			
Sale Shipping La	bel					
		(see attachment for details)	(see attachment for details)			
Shelf Life		12 months	24 months			
	MSL	Specific Label per MSL Level	Common Label per MSL			
			Level To refer barcode label or			
MSL Caution	Peak Package	Pre- Printed	To refer parcode laber of			
Label	Body Temp	rie-riiileu	filled up as applicable			
			To refer barcode label or			
	Bag Seal Date	Printed on MSL caution label				
			filled up as applicable			
<b>!</b>		•	<del> </del>			

## **Impacts to Data Sheet:**

None

**Change Impact:** 

None

## **Reason for Change:**

To improve productivity by standardizing the packing method as part of the integration of Microsemi



and Microchip.

### **Change Implementation Status:**

In Progress

### **Earliest Implementation Date:**

May 1, 2019

Note: The earliest implementation date is the earliest date that we may implement any combination of the changes listed in this PCN as we will not implement any of the proposed changes prior to this date. After the earliest implementation these changes may occur to any product over the course of many months depending on inventory levels and business conditions.

**Time Table Summary:** 

	March 2019				May 2019						
Workweek	09	10	11	12	13	% <b>□</b> © •M=	18	19	20	21	22
Final PCN Issue Date					Χ						
Estimated Implementation Date							Χ				

#### **Method to Identify Change:**

Traceability, label, inner and outer boxes.

### **Contact Microchip:**

You may contact your local <u>Microchip Sales and Distribution</u>. Contact information is also provided on the attached Frequently Asked Questions (FAQ).

If applicable, please also copy your local Microchip field sales and/or field quality representative.

### **Revision History:**

March 30, 2019: Issued final notification.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

#### Attachment(s):

Frequently Asked Questions Microsemi\_ May 2019.pdf

LCLD WIFI VPT and TIM Packing Pre and Post Changes.pdf

PCN\_KSRA-21IPNN877\_Affected\_CPN.pdf

PCN KSRA-21IPNN877 Affected CPN.xlsx

Please contact your local <u>Microchip sales office</u> with questions or concerns regarding this notification.

#### **Terms and Conditions:**

If you wish to <u>receive Microchip PCNs via email</u> please register for our PCN email service at our <u>PCN home page</u> select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.

If you wish to <u>change your PCN profile</u>, <u>including opt out</u>, please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.





LCLD, WIFI, VPT, TIM- Packing Pre and Post Changes



**Part Aging** 



## **Part Aging**

PRE CHANGE	POST CHANGE
LCLD, VPT, TIM:  - Shippable finished goods inventory with date codes not to exceed an age of five years. Product exceeding five years of shelf life will be scrapped Shipments of Standard products with a date code over 24 months of age will require notification to the customer through the Microsemi Customer Care group Shipments of Low Volume products with a date code over 24 months of age will not require customer notification or a special Certificate of Conformance (C of C) (Refer#135817)  WIFI:  Can ship date codes up to 3 years after do recertification. Refer# SGQ1377	Microchip may ship parts up to 48 months (4 years).  Reason: Material sets used to manufacture integrated circuits have shown no degradation in solderability, moisture sensitivity or reliability of products after 48 months.  For more information related to Microchip's part aging strategy, please visit the following link on our website: Component Age Policy  For Microchip Direct and Sample is 5 years



## **Combination Rule**



## Combination Rule- Tray, Tube and T&R

PRE CHANGE	POST CHANGE
<ul> <li>Only like MPN's are allowed to be combined.</li> <li>Up to 2 date codes per reel or bulk pack box.</li> <li>For WIFI: control to two trace codes only combined in a single reel (instead of two date codes)</li> <li>Up to a thirteen-week span (newest – oldest date code,YYWW) of assembly production is allowed for all packages.</li> <li>Do not combine lots from material with different assembly locations</li> <li>Do not combine lots from material with different wafer fabrication sites.</li> </ul>	<ul> <li>1 Device.</li> <li>3 Date codes.</li> <li>No limit time span between D/C</li> <li>No limit to number of production lots follow date code combination rule.</li> <li>1 Assembly Site.</li> <li>1 Test Site.</li> <li>1 Wire Material.</li> <li>1 Wafer Fab</li> <li>No limit for Die Revision, Die ID, Fab Revision and test flow.</li> </ul>



## **Recertification Program**



## **Recertification Program**

PRE CHANGE	POST CHANGE
LCLD, VPT, TIM: No define in 07-001  WIFI: Recertification of solderability at 3 years and solderability and electrical test at 5 years.	Parts older than 24 months (2 years) old will be recertified prior shipment. It may include one or more of the following: inspections, retest, rescanning and repacking of parts.
Storage time per package: Plastic Package: Physical / Mechanical – 3 years by D/C Electrical – 5 years by D/C  Hermetic Package: Physical / Mechanical – 3 years by D/C Electrical – 3 years by D/C	



Bag/Inner carton Label (LCLD, VPT, and TIM)



## Bag Label (LCLD, VPT, and TIM)

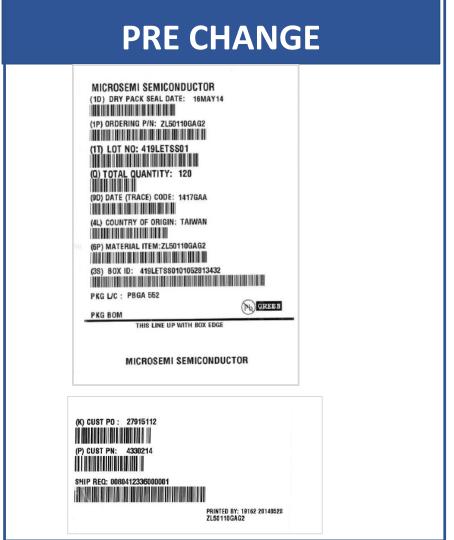




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## Inner Carton Label (LCLD, VPT, and TIM)



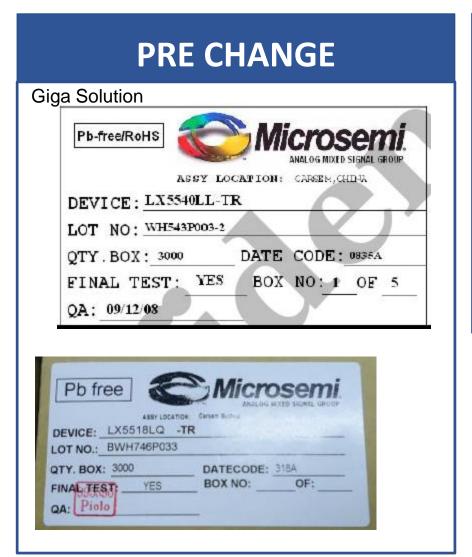


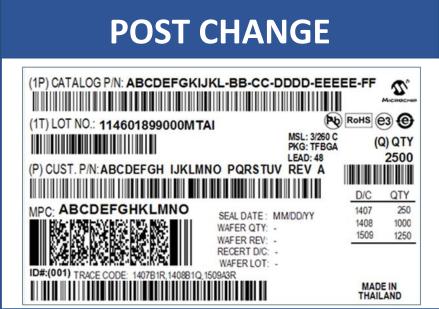


Reel/Bag/Inner carton Label
(WIFI- Giga Solution, Sigurd,
and ASEM)



# Reel / Bag/ Inner carton Label (WIFI – Giga Solution and Sigurd)







# Reel / Bag/ Inner carton Label (WIFI – ASEM)

## **PRE CHANGE** Reel/Bag Microsemi PB FREE / RoHS ANALOG MIXED SIGNAL GROUP ASSY LOCATION : CHINA LOT NO.: SL96175 / SL96176 D/C: 1349M / 1349L QTY: 1300 / 700 FINAL TEST: YES QA: Inner carton Microsemi PB FREE / RoHS ANALOG MIXED SIGNAL GROUP ASSY LOCATION: CHINA DEVICE: PD69108ILQ-TR LOT NO.: SL96175 / SL96176 D/C: 1349M / 1349L QA: BOX ID: 340LG01S1C0011160052



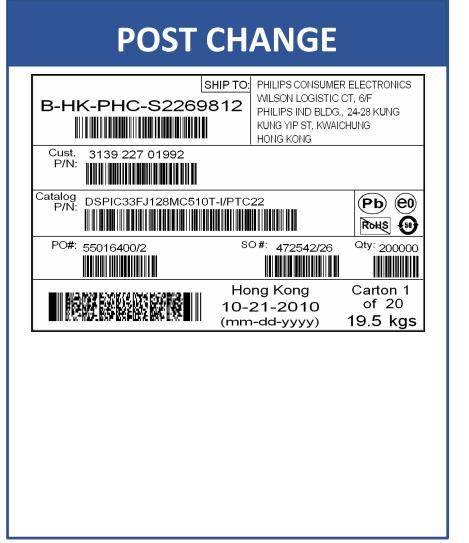


Outer carton Label (LCLD, VPT, TIM)



# Outer Carton Label (LCLD, VPT, and TIM)

## **PRE CHANGE** Ship To: Microsemi. Customer Ship To Address Ship From: Microsemi Semiconductor C/O ASE Electronics (M) S/B PH IV, Free Industrial Zone 11900 Penang Description of Goods: INTEGRATED CIRCUITS (K) PURCHASE ORDER NUMBER: 27915112 (P) CUSTOMER PART NUMBER: 4330214 (1P) ORDERING P/N: ZL50110GAG2 (Q) CARTON QUANTITY: 384 SHIP REQ: 0080412336000001 BOX ID: LE4050657F001 SALES ORDER #: 0000218604 FORWARDER: DHL AIR SHIP DATE: 16MAY14 Package Count 1 OF 1 Country of Origin :TW

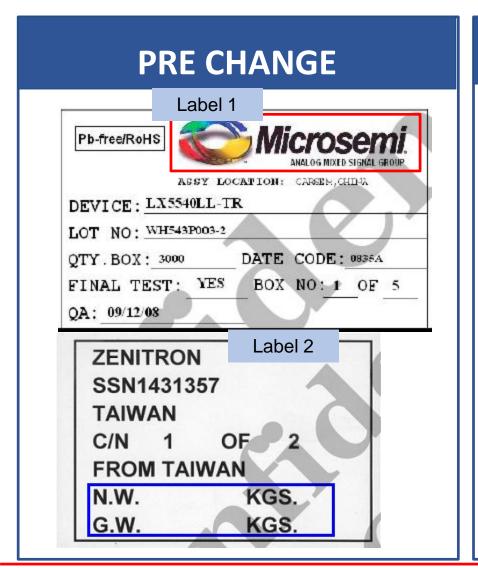




# Outer carton Label (WIFI- Giga Solution, Sigurd, ASEM)



# Outer Carton Label (WIFI – Giga Solution)

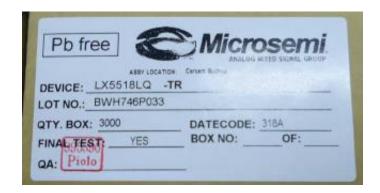






## Outer Carton Label (WIFI – Sigurd)

## **PRE CHANGE**



## **POST CHANGE**





## Outer Carton Label (WIFI – ASEM)

## **PRE CHANGE** Ship From: Ship To: ASE ELECTRONICS (M) SDN BHD. PHASE 4. FREE INDUSTRIAL ZONE MENLO WORLDWIDE HK LTD UNIT 901, SVF GRANDTECH CENTRE, NO 8 ON PING ST SIU LEK YUEN. 11900 BAYAN LEPAS ATTN: JAN LEE ASEM INVOICE NUMBER: LG9030031F CUSTOMER PO NUMBER : (P) CUSTOMER PART NO. : DEVICE TYPE :PD69104ILQ - TR (Q)CARTON QUANTITY: 2000 SHIPMENT NO.: 20190311 FORWARDER : DHL AIR G/W: 1.62 KG N/W :1.28 KG SHIP DATE: 11MAR19

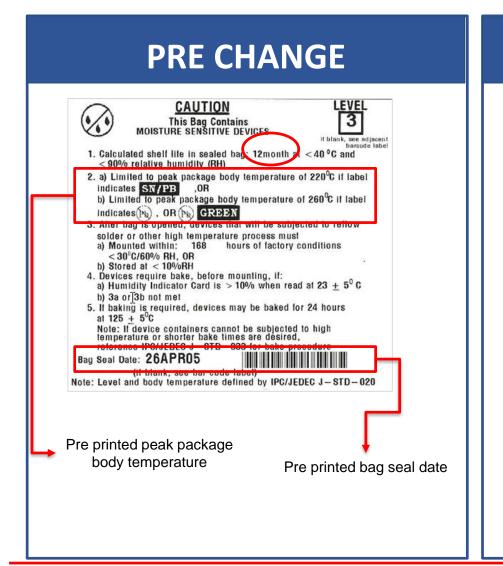


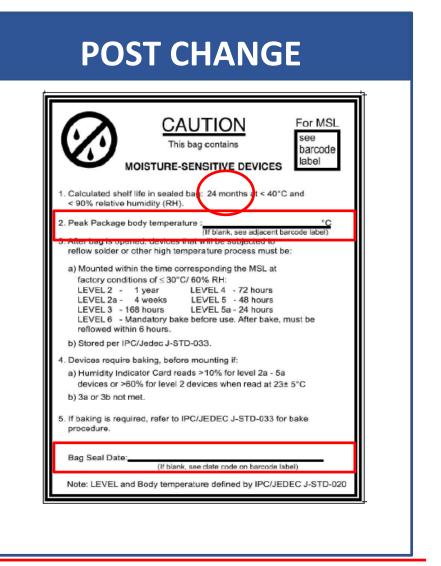


## **MSL Caution Label**



## Outer Carton Label (WIFI – ASEM)







## **END**

### Frequently Asked Questions (FAQ)

**Contacting Microchip**: Microchip has Sales Offices Worldwide. You have received this correspondence from a Microchip Inside Sales Representative, please continue to work with him/her to guide you through the transition. Should you need to find your local office, please visit our website at: Microchip Sales and Distribution. Also note that your current Microsemi contacts have moved to the Microchip email system therefore their email address has changed to first name.last name@microchip.com

You may also contact the following individuals within your geography:

Americas: Rozita Yajadda (Rozita.yajadda@microchip.com)
Europe: Renata Locatelli (renata.locatelli@microchip.com)

APAC: Nora Lee (nora.lee@microchip.com)

World Wide Distribution: Jennifer Innella (<u>jennifer.innella@microchip.com</u>)

EMEA Distribution Renata Locatelli (<u>renata.locatelli@microchip.com</u>)

Asia Distribution: Derek Chan (<u>derek.chan@microchip.com</u>)

**Open Direct Orders with Microsemi**: Open Orders for affected parts will be transferred to the Microchip Systems on or about May 1, 2019. Customers will be contacted by local sales offices prior to the transfer to ensure a smooth transition. All orders will be transferred in US\$ currency. The details of the currency conversion will be outlined by your local ISR contacts closer to the transfer date.

**MOQ**: Orders must be placed in multiples of tray, tube, bag, or reel size. Additionally, there may be a Purchase Order/Order Line minimum. Existing Microsemi orders being converted to Microchip orders will be subject to the Microchip base quantity multiples and Microchip Purchase Order/Order Line item minimum.

Should changes be required when migrating open backlog, each customer will be notified with full details by your local Inside Sales contact.

**Order Acknowledgement**: Microchip provides Acknowledgements for all new Direct orders entered and for each change made to an existing Direct order. This document is typically provided via email. Once an existing order is transferred from the Microsemi system to the Microchip system an Order Acknowledgement will then be sent. Customers or Distributors that have an EDI connection will receive either an 855 acknowledgement (US & Asia) or ORDRSP acknowledgement (Europe) via EDI.

**Cancel/Reschedule**: The table below provides information on the Microchip Cancel/Reschedule policy:

Catalog PN Restriction	Cancellation	CRD Push Out	CRD Pull In Allowed	CRD Push Out Allowed
Standard	>30 days PRD	>30 days PRD	Υ	Υ
Custom, Non Standard	>60 days PRD	>60 days PRD	Υ	Υ
QS9000	>60 days PRD	>60 days PRD	Υ	Υ
NCNR	N/A	N/A	Υ	N

<sup>\*</sup>CRD – Customer Requested Delivery Date

**Advanced Ship Notice (ASN)**: When placing a Direct Order with Microchip, customers can elect to receive an Advance Ship Notice. This document advises that your order is prepared to ship to the location identified on your Purchase Order. This option will be discussed with you by your local Microchip Contact prior to the go live date in May.

Managing Product Requirements during the Transition: The Microsemi order entry and shipments systems for items identified in this information packet will transition to Microchip systems on or about May 1, 2019. Until that time, please continue to manage your product requirements as you do today. If changes have been made with your local Representative Sales Office, please see the Microchip section Contacting Microchip from above. Microchip will have a 'Quiet Period' that will occur for several days surrounding the final integration so that we can import all existing Purchase Orders into our system. During that time, we will not Accept New Orders, Modify/Cancel Existing Orders, or Ship Product. Please contact your local sales office with any questions or concerns.

**Shipping and Invoicing after the transition**: After May 1, 2019, all products identified in this phase will be shipped and invoiced from Microchip. Please alert your **Receiving** and **Accounts Payable** departments of this change; in our experience, some clients must cancel existing backlog and then re-issue a new P.O. to Microchip. Over the coming weeks Microchip will contact you to discuss all your needs to insure there is no interruption in your supply chain.

**Vendor/Supplier Code:** If your system requires a new code to support order placement to Microchip and receive in Microchip shipments, please arrange as needed.

**Shipping Labels, Boxes and Packing Methods**: Labels, Boxes and Packing methods will be standardized to Microchip's current processes. Special shipping labels for special

<sup>\*</sup>PRD - Microchip Anticipated Delivery Date

products such as programing products, special testing, etc. will adhere to the standard Microchip process over time. See attached Standard Microchip Label Specification.

Lots, Trace Codes, Date Codes, Part Aging, and Shelf Life: Standard Microchip methods for combining production lots, trace codes and date codes into tubes, trays, and reel media will apply as well as standard Microchip Part Aging and Shelf Life Policies. Microchip quality documents and policies including part aging policy are found on our website. Quality Documents and Policies

Payment Terms: Standard payment terms are N30

**Terms & Conditions**: Microchip Sales are subject to the company's Terms and Conditions ("T&C"). Microchip T&C does differ slightly depending on whether the customer is in the European Union or elsewhere in the world and whether they are purchasing Direct or through microchipDIRECT. Microchip Terms and Conditions are attached.

Product/Process Change Notification (PCN) after the transition: Shortly after May 1, 2019, the standard Microchip methods for notifying customers about product changes that include PCNs and End of Life (EOL) notices will begin to apply (please note that this process may integrate over multiple phases of select products over an extended period). Part of the standard method includes a PCN email service that we expect to be available to select Microsemi customer/product combinations soon after or on May 1, 2019. Once available, customers who wish to receive PCN's via email are expected to register for PCN email service on our PCN web page. Information about how and when to register will be provided in separate integration PCNs as the products you are interested in are phased in. The Microsemi PCN system will continue to be used in conjunction with a partial Microchip PCN system until the full Microchip PCN system can support Microsemi products soon after or on May 1, 2019 (review how in the Microsemi Integration PCN's below). The Microsemi PCN system will be terminated after the transition to Microchip systems is complete. Information about Microchip's PCN system can be found at this link: Microchip PCN Website

**Microsemi Integration PCN's**: Until full integration to Microchip's PCN system all PCN's related to the integration will be provided using the Microsemi PCN system and can also be found at this Microchip website: <a href="Product Change Notifications">Product Change Notifications</a>. This same notification process will be used to inform customers when your select products will be targeted to be integrated and the timeline for those products. Additional integration PCNs for Microsemi products may be issued for the following changes; ordering part numbering convention, shipping labels, shipping boxes, packing methods, part aging/shelf life, top marking, manufacturing site, Bill of Material (BOM), Silicon, and EOL among others.

**RoHS Information:** Can be found on the Microchip Website under RoHS PB Free, RoHS Device Search. An email will be generated from the system with all of the pertinent information regarding the device search.

http://www.microchip.com/wwwproducts/Rohs/

PCN_KSRA-21IPNN877
CATALOG_PART_NBR
BCM6304KMLG
BCM6304KMLGT
BCM6305KMLG
BCM6305KMLGT
BCM65050IMLG
BCM65050IMLGT
BCM65060IMLG
BCM65060IMLGT
CLQ214029/KW/BP2N
CR3142
DS3100GN2
DS3100SWGN2
DS3102GN2
DS3104GN2
DS3105LN2
DS3106LN2
DS31400GN2
DS31400SWGN2
DS31404GN2
DS31406GN2
DS31407GN2
DS31408GN2
DS31408SWGN2
DS31415GN2
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LE57D111BTCT
LE57D121BTC
LE57D121BTCT
LE57D122BTC
LE57D122BTCT
LE58QL021BVC
LE58QL021BVCT
LE58QL021FJC
LE58QL021FJCT
LE58QL022BVC
LE58QL022BVCT
LE58QL02FJC
LE58QL02FJCT
LE58QL031DJC
LE58QL031DJCT
LE58QL061BVC
LE58QL061BVCT
LE58QL063HVC
LE58QL063HVCT

PCN KSRA-21IPNN877
CATALOG PART NBR
LE79112AKVC
LE79112AKVCT
LE79114KVC
LE79124KVC
LE79124KVCT
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LE79234KVC
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LE792388TVCT
LE792388VQC
LE792388VQCT
LE79252BTC
LE79252BTCT
LE79271AMQC
LE79271AMQCT
LE79271MQC
LE79271MQCT
LE79272PQC
LE79272PQCT
LE79Q2281DVC
LE79Q2281DVCT
LE79Q2284MVC
LE79Q2284MVCT
LE79R70-1DJC
LE79R70-1DJCT
LE79R70-1FQC
LE79R70DJC
LE79R70DJCT
LE79R79-1DJC
LE79R79-1DJCT
LE79R79-1FQC
LE79R79-2DJC
LE79R79-2DJCT
LE79R79-3DJC
LE79R79-3DJCT
LE87100NQC
LE87100NQCT
LE87251NQC
LE87251NQCT
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LE87270NQC
LE87270NQCT
LE87270NQCT

PCN_KSRA-21IPNN877
CATALOG_PART_NBR
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LE87281NQCT
LE87282MQC
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LE87285NQC
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LE87290YQCT
LE87401NQC
LE87401NQCT
LE87402MQC
LE87402MQCT
LE87411NQC
LE87411NQCT
LE87501NQC
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LE88010BQC
LE88010BQCT
LE88101DVC
LE88102KQC
LE88131BLC
LE88131BLCT
LE88221DLC
LE88221DLCT
LE88231DLC
LE88231DLCT
LE88241DLC
LE88241DLC
LE88241DLCT
LE88262TQC

PCN_KSRA-21IPNN877
CATALOG_PART_NBR
LE9541CUQCT
LE9541DUQC
LE9541DUQCT
LE9551CMQC
LE9551CMQCT
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LE9551DMQCT
LE9621AQC
LE9621AQCT
LE9622RQC
LE9622RQCT
LE9632RQC
LE9632RQCT
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LE9641PQCT
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LE9643AQCT
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LE9661WQCT
LE9662WQC
LE9662WQCT
LE9672WQC
LE9672WQCT
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LX5511LQ-TR
LX5518LQ
LX5518LQ-TR
LX5530LQ
LX5530LQ-TR
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LX5533LQ
LX5533LQ-TR
LX5535LQ
LX5535LQ-TR
LX5535LQ-TR-13122

PCN_KSRA-21IPNN877
CATALOG_PART_NBR
LX5551LQ
LX5551LQ-TR
LX5561LL
LX5561LL-TR
LX5563LL-TR
LX5575LL
LX5575LL-TR
LX5584BLQ
LX5584BLQ-TR
LX5584HLQ
LX5584HLQ-TR
LX5586ALL
LX5586ALL-TR
LX5586HLL
LX5586HLL-TR
LX5586LL
LX5586LL-TR
LX5589ALQ
LX5589ALQ-TR
LX5589BLQ
LX5589BLQ-TR
LX5589HLQ
LX5589HLQ-TR
LX5591LQ
LX5591LQ-TR
LX5602LQ
LX5602LQ-TR
MAX24188ETK2
MAX24188ETK2T
MAX24205EXG2
MAX24210EXG2
MAX24287ETK2
MAX24287ETK2T
MAX24288ETK2
MAX24288ETK2T
MAX24305EXG2
MAX24310EXG2
MAX24405EXG2
MAX24410EXG2
MAX24505EXG2
MAX24505EXG2003G
MAX24510EXG2
MAX24510EXG2Q00P
MAX24510EXG2Q00Q

PCN KSRA-21IPNN877
CATALOG PART NBR
MAX24605EXG2
MAX24610EXG2
MAX24010EXG2 MAX24705EXG2
MAX24703EXG2 MAX24710EXG2
MAX3612ETM2 MAX3612ETM2T
MAX3624AETJ2
MAX3624AETJ2T
MAX3624UTJ2
MAX3624UTJ2T
MAX3625ACUG2
MAX3625ACUG2T
MAX3637ETM2
MAX3637ETM2T
MAX3638ETM2
MAX3638ETM2T
MAX3639ETM2
MAX3639ETM2T
MAX3670ETJ2
MAX3670ETJ2T
MAX3671ETN2
MAX3671ETN2T
MAX3674ECM2
MAX3674ECM2T
MAX3677CTJ2
MAX3677CTJ2T
MAX3678UTN2
MAX3678UTN2T
MAX3679AETJ2
MAX3679AETJ2T
MAX3697AETJ2
MAX3697AETJ2T
MAX3697CTJ2
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MAX3698CTJ2
MAX3698CTJ2T
MAX9451EHJ2
MAX9451EHJ2T
MAX9452EHJ2
MAX9452EHJ2T
MT093AE1
MT093AP1
MT093APR1
MT8806AP1

PCN_KSRA-21IPNN877
CATALOG_PART_NBR
MT8806APR1
MT8808AP1
MT8808APR1
MT8809AP1
MT8809APR1
MT8812AE1
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MT8812APR1
MT8815AE1
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MT8816AF1
MT8816AP1
MT8816APR1
MT8870DN1
MT8870DNR1
MT8870DS1
MT8870DSR1
MT8880CN1
MT8880CP1
MT8880CPR1
MT8880CS1
MT8880CSR1
MT8888CN1
MT8888CP1
MT8888CS1
MT8888CSR1
MT8889CN1
MT8889CS1
MT8889CSR1
MT88E39AS1
MT88E39ASR1
MT88E43BS1
MT88E43BSR1
MT88L70AN1
MT88L70ANR1
MT88L70AS1
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