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Littelfuse, Inc.
8755 West Higgins Road, Suite 500
Chicago, IL 60631 USA
(773) 628-1000

Jul 20th, 2022

RE: LFPCN 41450- TVS STD DO-214AB(SMC) package additional Epoxy Molding Compound and Assembly/Test location approval

To: Our Valued Customers

Effective 1 Oct 2022, Littelfuse will be adding a new epoxy molding compound (EMC) for our DO-214AB package including SMCJ, 1.5SMC, SMDJ, 3.0SMC/J, 4.0SMDJ, and 5.0SMDJ/S Series (the Affected Series). This urgent addition is necessary due to circumstances beyond Littelfuse, as the current supplier recently obsoleted the EMC used by the Affected Series with a last time buy of Sep 2022.

To further strengthen the security and continuity of supply for our customers, Littelfuse will be adding a new assembly and test site location in the Philippines for the Affected Series. Currently, such products have a country of origin China.

Due to the EMC and location change, the process and structure for 5.0SMDJ series only has been modified to ensure process manufacturability, quality and reliability.

There will be no change to the datasheet specifications for the Affected Series. The electrical performance of the Affected Series remains the same, within existing datasheet specifications. There will be no change to the form, fit, function, or reliability of the products. Packaging dimensions of the Affected Series will remain the same.

All affected products have been fully qualified in accordance with established performance and reliability criteria. Please refer to the attached affected parts list and documentation for qualification result and change details. Samples and qualification data are available upon request.

Form, fit, function changes: None

Part number changes: None

Effective date: Oct 1st, 2022

Replacement products: N/A

Last time buy: N/A

This notification is for your information and acknowledgement. If you have any other questions or concerns, please contact your local sales team or product team below for further assistance.

We highly value your business and look forward to assisting you whenever possible.

Sincerely,

Jenny Chen
Assistant Product Marketing Manager
Commercial TVS Products
Tel: +86 510 85277701 Ext – 7965
Jchen7@littelfuse.com



800 E. Northwest Highway Des Plaines, IL 60016

Product/Process Change Notice (PCN)

PCN#: LFPCN #41450 **Date:** Jul 20th, 2022

Product Identification:

DO-214AB(SMC) Package products of TVS STD SMCJ, 1.5SMC, SMDJ, 3.0SMC/J, 4.0SMDJ, and 5.0SMDJ/S Series

Implementation Date for Change:

Oct 1st, 2022

Contact Information

Name: Jenny Chen

Title: Assistant Product Manager

Phone #: +86 510 85277710 Ext. 7965

Fax#: N/A

E-mail: jchen7@littelfuse.com

Category of Change:

- Assembly Process
- Data Sheet
- Technology
- Discontinuance/Obsolescence
- Equipment
- Manufacturing Site
- Raw Material
- Testing
- Fabrication Process
- Other: _____

Description of Change:

Littelfuse will be adding a new epoxy molding compound (EMC) for our DO-214AB package including SMCJ, 1.5SMC, SMDJ, 3.0SMC/J, 4.0SMDJ, and 5.0SMDJ/S Series (the Affected Series) due to one supplier EOL current EMC.

To further strengthen the security and continuity of supply for our customers, Littelfuse will be adding a new assembly and test site location in the Philippines for the Affected Series. Currently such products have a country of origin of CN.

Due to the EMC and location change, the process and structure for 5.0SMDJxx series only has been modified to ensure process capacity, manufacturability, quality and reliability.

There are no changes on FIT, function, reliability and outline of the finished product. All affected products have been fully qualified in accordance with established performance and reliability criteria.

Important Dates:

Qualification Samples Available: sample available upon request

Last Time Buy:

Final Qualification Data Available: Jul 18th 2022

Date of Final Product Shipment:

Method of Distinguishing Changed Product

- Product Mark,
- Date Code, traceability data available upon request
- Other,

Demonstrated or Anticipated Impact on Form, Fit, Function or Reliability:

N/A

LF Qualification Plan/Results:

Littelfuse Qualification Report is Available as attached and full detail data available upon request.

Customer Acknowledgement of Receipt: Littelfuse requests you acknowledge receipt of this PCN. In your acknowledgement, you can grant approval or request additional information. Littelfuse will assume the change is acceptable if no acknowledgement is received within 30 days of this notice. Lack of any additional response within 90 days of PCN issuance further constitutes acceptance of the change.



PCN Report

Prepared By : Luna Wang Product Engineer,
 Hellen Yang Product Engineering Manager,
Date : 7/18/2022
Device : DO-214AB Package Product
Revision : A

1.0 Objective:

The purpose of this project is to qualify new assembly & test location _Littelfuse Lipa as 2nd assembly source for SMC single die series and EMC 2nd source of DO-214AB package. Succeeding pages summarize the physical, electrical and reliability test performed in qualification lots.

2.0 Applicable Devices:

Package	Affected Series
DO-214AB (SMC)	SMCJ
	1.5SMC
	SMDJ
	3.0SMC/J
	5.0SMDJ/S

3.0 Assembly, Process & Material Differences/Changes:

3.1 Assembly and Process Changes

There are no significant changes in the assembly and process method.

3.2 The 2nd source of assembly & test Location _Littelfuse Lipa:

Process	Package	Series	Before_ Location	After_ Location
Assembly	DO-214AB	Commercial TVS	Wuxi	Wuxi/Lipa
Testing	DO-214AB	Commercial TVS	Wuxi	Wuxi/Lipa

3.2 EMC additional source

Process	Package	Series	Before		After	
			Epoxy Part	Supplier	Epoxy Part	Supplier
Molding	DO-214AB	Commercial TVS/SIDACTor	EME-E110G/KLG100S	Sumikon/Hysol	Y50076/KLG100S	Sumikon/Hysol

4.0 Packing Method

There will be no changes in the packing method.



5.0 Physical Differences/Changes:

There is no change in mechanical specification or package outline dimension (POD).

6.0 Reliability Test Results Summary:

2nd source of assembly & test Location _Littelfuse Lipa:

Test Category	Description	Sample P/N	Package	Sample Qty	Littelfuse test Ref#	Contents/ Conditions	Standard	Result Summary
Parametric	Electrical Parameters	SMCJ33A	DO-214AB	247	172857	VBR, IR		100% meet published spec.
		SMDJ130CA	DO-214AB	247	172857			
		SMDJ5.0A	DO-214AB	247	172857			
		SMDJ40CA	DO-214AB	247	172995			
		SMCJ6.5CA	DO-214AB	247	173281			
		1.5SMC250A	DO-214AB	247	174314			
Reliability for 2nd source of assembly & test Location _Lipa	Pre-condition	SMCJ33A	DO-214AB	120	173000	SMD H3TRB, UHAST	JESD22- A113	0 failures post test
		SMDJ130CA	DO-214AB	120	173000			
		SMDJ5.0A	DO-214AB	120	173000			
		SMDJ40CA	DO-214AB	120	173002			
		SMCJ6.5CA	DO-214AB	120	173283			
		1.5SMC250A	DO-214AB	120	174324			
	DC Blocking (HTRB)	SMCJ33A	DO-214AB	77	172857	bias VR@150C, 1008h	JESD22- A108	0 failures at 504/1008hours
		SMDJ130CA	DO-214AB	77	172857			
		SMDJ5.0A	DO-214AB	77	172857			
		SMDJ40CA	DO-214AB	77	172995			
		SMCJ6.5CA	DO-214AB	77	173281			
			1.5SMC250A	DO-214AB	77	174314		
	Biased Temp & Humidity (H3TRB)	SMCJ33A	DO-214AB	40	172857	bias VR@85C, 85%RH, 1008h	JESD22-A101	0 failures at 168/504/1008hours
		SMDJ130CA	DO-214AB	40	172857			
		SMDJ5.0A	DO-214AB	40	172857			
		SMDJ40CA	DO-214AB	40	172995			
		SMCJ6.5CA	DO-214AB	40	173281			
			1.5SMC250A	DO-214AB	40	174314		
	UHAST	SMCJ33A	DO-214AB	40	172857	TA= 130C/85%RH 96H	EIA/JESD22-A102B	0 failures at 96hours
		SMDJ130CA	DO-214AB	40	172857			
		SMDJ5.0A	DO-214AB	40	172857			
		SMDJ40CA	DO-214AB	40	172995			
		SMCJ6.5CA	DO-214AB	40	173281			
			1.5SMC250A	DO-214AB	40	174314		
Temp Cycle	SMCJ33A	DO-214AB	40	172857	1000cycles, -55°C & +150°C, dwell time 15mins	JESD22-A104	0 failures at 250/1000cycles	
	SMDJ130CA	DO-214AB	40	172857				
	SMDJ5.0A	DO-214AB	40	172857				
	SMDJ40CA	DO-214AB	40	172995				
	SMCJ6.5CA	DO-214AB	40	173281				
		1.5SMC250A	DO-214AB	40	174314			
Resistance to Solder Heat (RSH)	SMCJ33A	DO-214AB	30	172857	260°C, 10 seconds	JESD22- B106	0 failure after RSH	
	SMDJ130CA	DO-214AB	30	172857				
	SMDJ5.0A	DO-214AB	30	172857				
	SMDJ40CA	DO-214AB	30	172995				
	SMCJ6.5CA	DO-214AB	30	173281				
		1.5SMC250A	DO-214AB	30	174314			
MSL	SMCJ33A	DO-214AB	22	172857	MSL LEVEL1	JESD-020D	0 failure after MSL	
	SMDJ130CA	DO-214AB	22	172857				
	SMDJ5.0A	DO-214AB	22	172857				
	SMDJ40CA	DO-214AB	22	172995				
	SMCJ6.5CA	DO-214AB	22	173281				
		1.5SMC250A	DO-214AB	22	174314			



EMC additional source

Test Category	Description	Sample P/N	Package	Sample Qty	Littelfuse test Ref#	Contents/ Conditions	Standard	Result Summary
Parametric	Electrical Parameters	SMCJ33A	DO-214AB	247	172857	VBR, IR		100% meet published spec.
		SMDJ130CA	DO-214AB	247	172857			
		SMDJ5.0A	DO-214AB	247	172857			
		SMDJ40CA	DO-214AB	247	172995			
		SMCJ6.5CA	DO-214AB	247	173281			
		1.5SMC250A	DO-214AB	247	174314			
Reliability for EMC 2nd source	Pre-condition	SMCJ33A	DO-214AB	120	173000	SMD H3TRB, UHAST	JESD22- A113	0 failures post test
		SMDJ130CA	DO-214AB	120	173000			
		SMDJ5.0A	DO-214AB	120	173000			
		SMDJ40CA	DO-214AB	120	173002			
		SMCJ6.5CA	DO-214AB	120	173283			
		1.5SMC250A	DO-214AB	120	174324			
	DC Blocking (HTRB)	SMCJ33A	DO-214AB	77	172857	bias VR@150C, 1008h	JESD22- A108	0 failures at 504/1008hours
		SMDJ130CA	DO-214AB	77	172857			
		SMDJ5.0A	DO-214AB	77	172857			
		SMDJ40CA	DO-214AB	77	172995			
		SMCJ6.5CA	DO-214AB	77	173281			
		1.5SMC250A	DO-214AB	77	174314			
	Biased Temp & Humidity (H3TRB)	SMCJ33A	DO-214AB	40	172857	bias VR@85C,85%RH, 1008h	JESD22-A101	0 failures at 168/504/1008hours
		SMDJ130CA	DO-214AB	40	172857			
		SMDJ5.0A	DO-214AB	40	172857			
		SMDJ40CA	DO-214AB	40	172995			
		SMCJ6.5CA	DO-214AB	40	173281			
		1.5SMC250A	DO-214AB	40	174314			
	UHAST	SMCJ33A	DO-214AB	40	172857	TA=130C/85%RH 96H	EIA/JESD22-A102B	0 failures at 96hours
		SMDJ130CA	DO-214AB	40	172857			
		SMDJ5.0A	DO-214AB	40	172857			
		SMDJ40CA	DO-214AB	40	172995			
		SMCJ6.5CA	DO-214AB	40	173281			
		1.5SMC250A	DO-214AB	40	174314			
	Temp Cycle	SMCJ33A	DO-214AB	40	172857	1000cycles, -55°C & +150°C, dwell time 15mins	JESD22-A104	0 failures at 250/1000cycles
		SMDJ130CA	DO-214AB	40	172857			
		SMDJ5.0A	DO-214AB	40	172857			
		SMDJ40CA	DO-214AB	40	172995			
		SMCJ6.5CA	DO-214AB	40	173281			
		1.5SMC250A	DO-214AB	40	174314			
	Resistance to Solder Heat (RSH)	SMCJ33A	DO-214AB	30	172857	260°C, 10 seconds	JESD22- B106	0 failure after RSH
		SMDJ130CA	DO-214AB	30	172857			
		SMDJ5.0A	DO-214AB	30	172857			
		SMDJ40CA	DO-214AB	30	172995			
		SMCJ6.5CA	DO-214AB	30	173281			
		1.5SMC250A	DO-214AB	30	174314			
	MSL	SMCJ33A	DO-214AB	22	172857	MSL LEVEL1	JESD-020D	0 failure after MSL
		SMDJ130CA	DO-214AB	22	172857			
		SMDJ5.0A	DO-214AB	22	172857			
		SMDJ40CA	DO-214AB	22	172995			
		SMCJ6.5CA	DO-214AB	22	173281			
		1.5SMC250A	DO-214AB	22	174314			

MTBF Calculation

Estimate of Failure Rate, MTBF, FITS for a Given Operation Temperature (**See note**)

2nd source of assembly & test Location _Littelfuse Lipa:

Temp °C	% FR/khrs	MTBF (K)	FITS
30	0.000004	26326123	0.04
55	0.00007	1425319	0.7
85	0.001357	73709	13.6
100	0.00499	20040	49.9
125	0.035166	2844	351.7
150	0.196757	508	1967.6



EMC additional source (followed 168hrs results):

Temp °C	% FR/khrs	MTBF (K)	FITS
30	0.000023	4387687	0.2
55	0.000421	237553	4.2
85	0.008140	12285	81.4
100	0.029941	3340	299.4
125	0.210994	474	2109.9
150	1.180544	85	11805.4

Note: The **Mean-Time-Between-Failure (MTBF)** in hours and the percent failure rate per 1000 hours (%FR/khr) are computed at a 60% confidence level using the chi square method and the Arrhenius derating model for various junction operating temperatures. For the calculations, a value of 1 eV was used for the activation energy.

7.0 Electrical Characteristic Summary:

There is no change in electrical characteristics. Characterization data is available upon request.

8.0 Changed Part Identification:

NA

9.0 Recommendations & Conclusions:

Based on the test results, it is determined that the 2nd assembly & test location_Littelfuse Lipa & EMC 2nd source_Sumikon Y50076 is qualified and certified for production of Littelfuse DO-214AB Product Series.

10.0 Approvals:

Hellen Yang
Product Manager
Littelfuse, Inc.



Appendix I –Affected part number list

Package	2nd assembly & test location_ Littelfuse Lipa			
DO-214AB	SMCJ5.0A	1.5SMC6.8A	3.0SMC20A	SMDJ5.0A
	SMCJ5.0CA	1.5SMC6.8CA	3.0SMC24A	SMDJ5.0CA
	SMCJ6.0A	1.5SMC7.5A	3.0SMC28A	SMDJ6.0A
	SMCJ6.0CA	1.5SMC7.5CA	3.0SMC30A	SMDJ6.0CA
	SMCJ6.5A	1.5SMC8.2A	3.0SMC33A	SMDJ6.5A
	SMCJ6.5CA	1.5SMC8.2CA	3.0SMCJ5.0CA	SMDJ6.5CA
	SMCJ7.0A	1.5SMC9.1A	3.0SMCJ6.0CA	SMDJ7.0A
	SMCJ7.0CA	1.5SMC9.1CA	3.0SMCJ6.5CA	SMDJ7.0CA
	SMCJ7.5A	1.5SMC10A	3.0SMCJ7.0CA	SMDJ7.5A
	SMCJ7.5CA	1.5SMC10CA	3.0SMCJ7.5CA	SMDJ7.5CA
	SMCJ8.0A	1.5SMC11A	3.0SMCJ8.0CA	SMDJ8.0A
	SMCJ8.0CA	1.5SMC11CA	3.0SMCJ8.5CA	SMDJ8.0CA
	SMCJ8.5A	1.5SMC12A	3.0SMCJ9.0A	SMDJ8.5A
	SMCJ8.5CA	1.5SMC12CA	3.0SMCJ9.0CA	SMDJ8.5CA
	SMCJ9.0A	1.5SMC13A	3.0SMCJ10A	SMDJ9.0A
	SMCJ9.0CA	1.5SMC13CA	3.0SMCJ10CA	SMDJ9.0CA
	SMCJ10A	1.5SMC15A	3.0SMCJ11A	SMDJ10A
	SMCJ10CA	1.5SMC15CA	3.0SMCJ11CA	SMDJ10CA
	SMCJ11A	1.5SMC16A	3.0SMCJ12A	SMDJ11A
	SMCJ11CA	1.5SMC16CA	3.0SMCJ12CA	SMDJ11CA
	SMCJ12A	1.5SMC18A	3.0SMCJ13A	SMDJ12A
	SMCJ12CA	1.5SMC18CA	3.0SMCJ13CA	SMDJ12CA
	SMCJ13A	1.5SMC20A	3.0SMCJ14A	SMDJ13A
	SMCJ13CA	1.5SMC20CA	3.0SMCJ14CA	SMDJ13CA
	SMCJ14A	1.5SMC22A	3.0SMCJ15A	SMDJ14A
	SMCJ14CA	1.5SMC22CA	3.0SMCJ15CA	SMDJ14CA
	SMCJ15A	1.5SMC24A	3.0SMCJ16A	SMDJ15A
	SMCJ15CA	1.5SMC24CA	3.0SMCJ16CA	SMDJ15CA
	SMCJ16A	1.5SMC27A	3.0SMCJ17A	SMDJ16A
	SMCJ16CA	1.5SMC27CA	3.0SMCJ17CA	SMDJ16CA
	SMCJ17A	1.5SMC30A	3.0SMCJ18A	SMDJ17A
	SMCJ17CA	1.5SMC30CA	3.0SMCJ18CA	SMDJ17CA
SMCJ18A	1.5SMC33A	3.0SMCJ20A	SMDJ18A	
SMCJ18CA	1.5SMC33CA	3.0SMCJ20CA	SMDJ18CA	
SMCJ20A	1.5SMC36A	3.0SMCJ22A	SMDJ20A	
SMCJ20CA	1.5SMC36CA	3.0SMCJ22CA	SMDJ20CA	
SMCJ22A	1.5SMC39A	3.0SMCJ24A	SMDJ22A	
SMCJ22CA	1.5SMC39CA	3.0SMCJ24CA	SMDJ22CA	
SMCJ24A	1.5SMC43A	3.0SMCJ26A	SMDJ24A	
SMCJ24CA	1.5SMC43CA	3.0SMCJ26CA	SMDJ24CA	
SMCJ26A	1.5SMC47A	3.0SMCJ28A	SMDJ26A	

SMCJ26CA	1.5SMC47CA	3.0SMCJ28CA	SMDJ26CA
SMCJ28A	1.5SMC51A	3.0SMCJ30A	SMDJ28A
SMCJ28CA	1.5SMC51CA	3.0SMCJ30CA	SMDJ28CA
SMCJ30A	1.5SMC56A	3.0SMCJ33A	SMDJ30A
SMCJ30CA	1.5SMC56CA	3.0SMCJ33CA	SMDJ30CA
SMCJ33A	1.5SMC62A	3.0SMCJ36A	SMDJ33A
SMCJ33CA	1.5SMC62CA	3.0SMCJ36CA	SMDJ33CA
SMCJ36A	1.5SMC68A	3.0SMCJ40A	SMDJ36A
SMCJ36CA	1.5SMC68CA	3.0SMCJ40CA	SMDJ36CA
SMCJ40A	1.5SMC75A	3.0SMCJ43CA	SMDJ40A
SMCJ40CA	1.5SMC75CA	3.0SMCJ45CA	SMDJ40CA
SMCJ43A	1.5SMC82A	3.0SMCJ48CA	SMDJ43A
SMCJ43CA	1.5SMC82CA	3.0SMCJ51CA	SMDJ43CA
SMCJ45A	1.5SMC91A	3.0SMCJ54CA	SMDJ45A
SMCJ45CA	1.5SMC91CA	3.0SMCJ58CA	SMDJ45CA
SMCJ48A	1.5SMC100A	SMDJ9.0CA-T7	SMDJ48A
SMCJ48CA	1.5SMC100CA	SMDJ10A-T7	SMDJ48CA
SMCJ51A	1.5SMC110A	SMDJ10CA-T7	SMDJ51A
SMCJ51CA	1.5SMC110CA	SMDJ11A-T7	SMDJ51CA
SMCJ54A	1.5SMC120A	SMDJ11CA-T7	SMDJ54A
SMCJ54CA	1.5SMC120CA	SMDJ12A-T7	SMDJ54CA
SMCJ58A	1.5SMC130A	SMDJ12CA-T7	SMDJ58A
SMCJ58CA	1.5SMC130CA	SMDJ13A-T7	SMDJ58CA
SMCJ60A	1.5SMC150A	SMDJ13CA-T7	SMDJ60A
SMCJ60CA	1.5SMC150CA	SMDJ14A-T7	SMDJ60CA
SMCJ64A	1.5SMC160A	SMDJ14CA-T7	SMDJ64A
SMCJ64CA	1.5SMC160CA	SMDJ15A-T7	SMDJ64CA
SMCJ70A	1.5SMC170A	SMDJ15CA-T7	SMDJ70A
SMCJ70CA	1.5SMC170CA	SMDJ16A-T7	SMDJ70CA
SMCJ75A	1.5SMC180A	SMDJ16CA-T7	SMDJ75A
SMCJ75CA	1.5SMC180CA	SMDJ17A-T7	SMDJ75CA
SMCJ78A	1.5SMC200A	SMDJ17CA-T7	SMDJ78A
SMCJ78CA	1.5SMC200CA	SMDJ18A-T7	SMDJ78CA
SMCJ85A	1.5SMC220A	SMDJ18CA-T7	SMDJ85A
SMCJ85CA	1.5SMC220CA	SMDJ20A-T7	SMDJ85CA
SMCJ90A	1.5SMC250A	SMDJ20CA-T7	SMDJ90A
SMCJ90CA	1.5SMC250CA	SMDJ22A-T7	SMDJ90CA
SMCJ100A	1.5SMC300A	SMDJ22CA-T7	SMDJ100A
SMCJ100CA	1.5SMC300CA	SMDJ24A-T7	SMDJ100CA
SMCJ110A	SMDJ58A-T7	SMDJ24CA-T7	SMDJ110A
SMCJ110CA	SMDJ58CA-T7	SMDJ26A-T7	SMDJ110CA
SMCJ120A	SMDJ60A-T7	SMDJ26CA-T7	SMDJ120A
SMCJ120CA	SMDJ60CA-T7	SMDJ28A-T7	SMDJ120CA
SMCJ130A	SMDJ64A-T7	SMDJ28CA-T7	SMDJ130A

SMCJ130CA	SMDJ64CA-T7	SMDJ30A-T7	SMDJ130CA
SMCJ150A	SMDJ70A-T7	SMDJ30CA-T7	SMDJ150A
SMCJ150CA	SMDJ70CA-T7	SMDJ33A-T7	SMDJ160A
SMCJ160A	SMDJ75A-T7	SMDJ33CA-T7	SMDJ170A
SMCJ160CA	SMDJ75CA-T7	SMDJ36A-T7	SMDJ5.0A-T7
SMCJ170A	SMDJ78A-T7	SMDJ36CA-T7	SMDJ5.0CA-T7
SMCJ170CA	SMDJ78CA-T7	SMDJ40A-T7	SMDJ6.0A-T7
SMCJ180A	SMDJ85A-T7	SMDJ40CA-T7	SMDJ6.0CA-T7
SMCJ180CA	SMDJ85CA-T7	SMDJ43A-T7	SMDJ6.5A-T7
SMCJ200A	SMDJ90A-T7	SMDJ43CA-T7	SMDJ6.5CA-T7
SMCJ200CA	SMDJ90CA-T7	SMDJ45A-T7	SMDJ7.0A-T7
SMCJ220A	SMDJ100A-T7	SMDJ45CA-T7	SMDJ7.0CA-T7
SMCJ220CA	SMDJ100CA-T7	SMDJ48A-T7	SMDJ7.5A-T7
SMCJ250A	SMDJ110A-T7	SMDJ48CA-T7	SMDJ7.5CA-T7
SMCJ250CA	SMDJ110CA-T7	SMDJ51A-T7	SMDJ8.0A-T7
SMDJ150A-T7	SMDJ120A-T7	SMDJ51CA-T7	SMDJ8.0CA-T7
SMDJ160A-T7	SMDJ120CA-T7	SMDJ54A-T7	SMDJ8.5A-T7
SMDJ170A-T7	SMDJ130A-T7	SMDJ54CA-T7	SMDJ8.5CA-T7
	SMDJ130CA-T7		SMDJ9.0A-T7
5.0SMDJ6.0AS	5.0SMDJ10AS	5.0SMDJ17AS	5.0SMDJ30AS
5.0SMDJ6.0CAS	5.0SMDJ10CAS	5.0SMDJ17CAS	5.0SMDJ30CAS
5.0SMDJ6.5AS	5.0SMDJ11AS	5.0SMDJ18AS	5.0SMDJ33AS
5.0SMDJ6.5CAS	5.0SMDJ11CAS	5.0SMDJ18CAS	5.0SMDJ33CAS
5.0SMDJ7.0AS	5.0SMDJ12AS	5.0SMDJ20AS	5.0SMDJ36AS
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5.0SMDJ22A	5.0SMDJ12A-T7	5.0SMDJ26A-T7	5.0SMDJ28A-T7
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Package	EMC additional source affected PN					
DO-214AB	1.5SMC6.8A	SMCJ5.0A	SMDJ5.0CA	1.5SMC33A-100	SMCJ200A-SF	SMDJ10CA
	1.5SMC6.8CA	SMCJ5.0CA	SMDJ6.0CA	3.0SMC20A-HM	SMCJ200CA-SF	SMDJ24CA
	1.5SMC7.5A	SMCJ6.0A	SMDJ6.5CA	4.0SMDJ24A	SMCJ12CA-ER	SMDJ5.0CA-T7
	1.5SMC7.5CA	SMCJ6.0CA	SMDJ7.0CA	4.0SMDJ10A	SMCJ6.5CA-ER	SMDJ6.0CA-T7
	1.5SMC8.2A	SMCJ6.5A	SMDJ7.5CA	4.0SMDJ11A	SMCJ6.5CA-ER1	SMDJ6.5CA-T7
	1.5SMC8.2CA	SMCJ6.5CA	SMDJ8.0CA	4.0SMDJ12A	SMCJ6.5CA-ER2	SMDJ7.0CA-T7
	1.5SMC9.1A	SMCJ7.0A	SMDJ8.5CA	4.0SMDJ13A	SMCJ60CA-ER	SMDJ7.5CA-T7
	1.5SMC9.1CA	SMCJ7.0CA	SMDJ9.0CA	4.0SMDJ14A	SMCJ64CA-ER	SMDJ8.0CA-T7
	1.5SMC10A	SMCJ7.5A	SMDJ11CA	4.0SMDJ15A	SMCJ75CA-ER	SMDJ8.5CA-T7
	1.5SMC10CA	SMCJ7.5CA	SMDJ12CA	4.0SMDJ18A	SMCJ8.0CA-ER	SMDJ9.0CA-T7
	1.5SMC11A	SMCJ8.0A	SMDJ13CA	4.0SMDJ20A	SMCJ36A-54T7	SMDJ10CA-T7
	1.5SMC11CA	SMCJ8.0CA	SMDJ14CA	4.0SMDJ20A-HM	SMCJ10A-GR-GT3	SMDJ11CA-T7
	1.5SMC12A	SMCJ8.5A	SMDJ15CA	4.0SMDJ24A-HM	SMCJ5.0A-GT3	SMDJ12CA-T7
	1.5SMC12CA	SMCJ8.5CA	SMDJ16CA	5.0SMDJ12A	SMCJ5.0A-SA-GT3	SMDJ13CA-T7
	1.5SMC13A	SMCJ9.0A	SMDJ17CA	5.0SMDJ12CA	SMCJ10A-GR-GT3R	SMDJ14CA-T7
	1.5SMC13CA	SMCJ9.0CA	SMDJ18CA	5.0SMDJ13A	SMCJ5.0A-GT3R	SMDJ15CA-T7
	1.5SMC15A	SMCJ10A	SMDJ20CA	5.0SMDJ13CA	SMCJ5.0A-SA-GT3R	SMDJ16CA-T7
	1.5SMC15CA	SMCJ10CA	SMDJ22CA	5.0SMDJ14A	SMCJ6.5A-23-TR71	SMDJ17CA-T7
	1.5SMC16A	SMCJ11A	SMDJ26CA	5.0SMDJ14CA	SMCJ7.0A-23-TR71	SMDJ18CA-T7
	1.5SMC16CA	SMCJ11CA	SMDJ28CA	5.0SMDJ15A	SMCJ11A-23-TR71	SMDJ20CA-T7
	1.5SMC18A	SMCJ12A	SMDJ30CA	5.0SMDJ15CA	SMCJ13A-23-TR71	SMDJ22CA-T7
	1.5SMC18CA	SMCJ12CA	SMDJ33CA	5.0SMDJ16A	SMCJ18A-23-RG71	SMDJ24CA-T7
	1.5SMC20A	SMCJ13A	SMDJ36CA	5.0SMDJ16CA	SMCJ18A-23-TR71	SMDJ26CA-T7
	1.5SMC20CA	SMCJ13CA	SMDJ40CA	5.0SMDJ17A	SMCJ24A-23-TR71	SMDJ28CA-T7
	1.5SMC22A	SMCJ14A	SMDJ43CA	5.0SMDJ17CA	SMCJ30A-23-TR71	SMDJ30CA-T7
	1.5SMC22CA	SMCJ14CA	SMDJ45CA	5.0SMDJ18A	SMCJ48A-23-TR71	SMDJ33CA-T7
	1.5SMC24A	SMCJ15A	SMDJ48CA	5.0SMDJ18CA	SMCJ54A-23-TR71	SMDJ36CA-T7
	1.5SMC24CA	SMCJ15CA	SMDJ51CA	5.0SMDJ20A	SMCJ5.0A-T7	SMDJ40CA-T7
	1.5SMC27A	SMCJ16A	SMDJ54CA	5.0SMDJ20CA	SMCJ58A-T7	SMDJ43CA-T7
	1.5SMC27CA	SMCJ16CA	SMDJ58CA	5.0SMDJ22A	SMCJ64A-T7	SMDJ45CA-T7
	1.5SMC30A	SMCJ17A	SMDJ5.0A	5.0SMDJ22CA	SMCJ70A-T7	SMDJ48CA-T7
	1.5SMC30CA	SMCJ17CA	SMDJ6.0A	5.0SMDJ24A	SMCJ14A-TN	SMDJ51CA-T7



1.5SMC33A	SMCJ18A	SMDJ6.5A	5.0SMDJ24CA	SMCJ120A-L	SMDJ54CA-T7
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1.5SMC39A	SMCJ22A	SMDJ8.5A	5.0SMDJ28CA	SMCJ5.0AS-GT7	SMDJ20A-HW
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1.5SMC43A	SMCJ24A	SMDJ10A	5.0SMDJ30CA	SMCJ6.5AS-GT7	SMDJ20A-100
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1.5SMC120A	SMCJ54A	SMDJ51A	5.0SMDJ64CA	SMCJ13A-ER	3.0SMCJ24A-GT3
1.5SMC120CA	SMCJ54CA	SMDJ54A	5.0SMDJ70A	5.0SMDJ6.0AS	3.0SMCJ24A-SA-GT3
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1.5SMC160A	SMCJ64A	SMDJ64A	5.0SMDJ78CA	5.0SMDJ7.0CAS	3.0SMCJ28CA-GR-GT3
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1.5SMC170CA	SMCJ70CA	SMDJ75A	5.0SMDJ90A	5.0SMDJ8.0AS	3.0SMCJ30A-GT3
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1.5SMC400CA	SMCJ120CA	SMDJ130A	5.0SMDJ160A	5.0SMDJ14AS	3.0SMCJ48A-SA-GT3
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1.5SMC440CA	SMCJ130CA	SMDJ150A	5.0SMDJ170A	5.0SMDJ15AS	3.0SMCJ48CA-SA-GT3
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1.5SMC480CA	SMCJ150CA	SMDJ160CA	5.0SMDJ12A-T7	5.0SMDJ16AS	3.0SMCJ5.0CA-GRGT3
1.5SMC510A	SMCJ160A	SMDJ160A	5.0SMDJ12CA-T7	5.0SMDJ16CAS	3.0SMCJ60CA-GT3
1.5SMC510CA	SMCJ160CA	SMDJ170CA	5.0SMDJ13A-T7	5.0SMDJ17AS	3.0SMCJ6.0CA-SAGT3
1.5SMC530A	SMCJ170A	SMDJ170A	5.0SMDJ13CA-T7	5.0SMDJ17CAS	3.0SMCJ6.5A-GT3
1.5SMC530CA	SMCJ170CA	SMDJ180A	5.0SMDJ14A-T7	5.0SMDJ18AS	3.0SMCJ70A-SA-GT3
1.5SMC540A	SMCJ180A	SMDJ180CA	5.0SMDJ14CA-T7	5.0SMDJ18CAS	3.0SMCJ70CA-SA-GT3
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1.5SMC550CA	SMCJ200CA	SMDJ220A	5.0SMDJ16A-T7	5.0SMDJ22AS	3.0SMCJ7.5A-GT3
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1.5SMC600CA	SMCJ220CA	SMDJ250A	5.0SMDJ17A-T7	5.0SMDJ24AS	3.0SMCJ78A-GT3
1.5SMC16CA-54	SMCJ250A	SMDJ250CA	5.0SMDJ17CA-T7	5.0SMDJ24CAS	3.0SMCJ8.5CA-GRGT3
1.5SMC16CA-54T7	SMCJ250CA	SMDJ300A	5.0SMDJ18A-T7	5.0SMDJ26AS	3.0SMCJ10A-SA-GT3R
1.5SMC300CA-54T7	SMCJ300A	SMDJ300CA	5.0SMDJ18CA-T7	5.0SMDJ26CAS	3.0SMCJ120CA-GT3R
1.5SMC18CA-23-TR71	SMCJ300CA	SMDJ350A	5.0SMDJ20A-T7	5.0SMDJ28AS	3.0SMCJ12A-GT3R
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1.5SMC62A-N	SMCJ440A	SMDJ440CA	5.0SMDJ24CA-T7	5.0SMDJ33CAS	3.0SMCJ15CA-GT3R
1.5SMC68A-N	SMCJ440CA	SMDJ5.0A-T7	5.0SMDJ26A-T7	5.0SMDJ36AS	3.0SMCJ16A-GT3R
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1.5SMC68A-BW	SMCJ36CA-N	SMDJ6.5A-T7	5.0SMDJ28A-T7	5.0SMDJ40AS	3.0SMCJ16CA-GT3R
1.5SMC75A-ER	SMCJ64CA-N	SMDJ7.0A-T7	5.0SMDJ28CA-T7	5.0SMDJ40CAS	3.0SMCJ18CA-GRGT3R
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3.0SMC24A	SMCJ10CA-SA-GT3	SMDJ8.5A-T7	5.0SMDJ33A-T7	5.0SMDJ45AS	3.0SMCJ22A-GT3R
3.0SMC28A	SMCJ11CA-SA-GT3	SMDJ9.0A-T7	5.0SMDJ33CA-T7	5.0SMDJ45CAS	3.0SMCJ24A-GT3R
3.0SMC30A	SMCJ18CA-GT3	SMDJ10A-T7	5.0SMDJ36A-T7	5.0SMDJ48AS	3.0SMCJ24A-SA-GT3R
3.0SMC33A	SMCJ18CA-SA-GT3	SMDJ11A-T7	5.0SMDJ36CA-T7	5.0SMDJ48CAS	3.0SMCJ24CA-GT3R
3.0SMCJ5.0CA	SMCJ24CA-GR-GT3	SMDJ12A-T7	5.0SMDJ40A-T7	5.0SMDJ51AS	3.0SMCJ24CA-SAGT3R
3.0SMCJ6.0CA	SMCJ26CA-SA-GT3	SMDJ13A-T7	5.0SMDJ40CA-T7	5.0SMDJ51CAS	3.0SMCJ28A-GT3R
3.0SMCJ6.5CA	SMCJ40CA-SA-GT3	SMDJ14A-T7	5.0SMDJ43A-T7	5.0SMDJ54AS	3.0SMCJ28CA-GRGT3R

3.0SMCJ7.0CA	SMCJ43CA-SA-GT3	SMDJ15A-T7	5.0SMDJ43CA-T7	5.0SMDJ54CAS	3.0SMCJ30A-GT3R
3.0SMCJ7.5CA	SMCJ150CA-SA-GT3	SMDJ16A-T7	5.0SMDJ45A-T7	5.0SMDJ58AS	3.0SMCJ33A-GT3R
3.0SMCJ8.0CA	SMCJ170CA-SA-GT3	SMDJ17A-T7	5.0SMDJ45CA-T7	5.0SMDJ58CAS	3.0SMCJ33CA-GT3R
3.0SMCJ8.5CA	SMCJ10CA-GT3R	SMDJ18A-T7	5.0SMDJ48A-T7	5.0SMDJ60AS	3.0SMCJ36A-GT3R
3.0SMCJ9.0A	SMCJ10CA-SA-GT3R	SMDJ20A-T7	5.0SMDJ48CA-T7	5.0SMDJ64AS	3.0SMCJ36CA-GT3R
3.0SMCJ9.0CA	SMCJ11CA-SA-GT3R	SMDJ22A-T7	5.0SMDJ51A-T7	5.0SMDJ70AS	3.0SMCJ40CA-GRGT3R
3.0SMCJ10A	SMCJ18CA-GT3R	SMDJ24A-T7	5.0SMDJ51CA-T7	SMDJ75CA-ER	3.0SMCJ40CA-GT3R
3.0SMCJ10CA	SMCJ18CA-SA-GT3R	SMDJ26A-T7	5.0SMDJ54A-T7	SMDJ58CA-F	3.0SMCJ43A-GT3R
3.0SMCJ11A	SMCJ24CA-GR-GT3R	SMDJ28A-T7	5.0SMDJ54CA-T7	SMLJ33A-54T7	3.0SMCJ43A-SA-GT3R
3.0SMCJ11CA	SMCJ26CA-SA-GT3R	SMDJ30A-T7	5.0SMDJ58A-T7	SMDJ18A-54T7	3.0SMCJ43CA-SAGT3R
3.0SMCJ12A	SMCJ40CA-SA-GT3R	SMDJ33A-T7	5.0SMDJ58CA-T7	SMLJ6.0CA-54T7	3.0SMCJ45A-GT3R
3.0SMCJ12CA	SMCJ43CA-SA-GT3R	SMDJ36A-T7	5.0SMDJ60A-T7	SMLJ6.0A-54T7	3.0SMCJ48A-GT3R
3.0SMCJ13A	SMCJ6.0CA-23-TR71	SMDJ40A-T7	5.0SMDJ60CA-T7	SMLJ5.0CA-54T7	3.0SMCJ48A-SA-GT3R
3.0SMCJ13CA	SMCJ6.5CA-23-TR71	SMDJ43A-T7	5.0SMDJ64A-T7	SMLJ7.0CA-54T7	3.0SMCJ48CA-GRGT3R
3.0SMCJ14A	SMCJ7.0CA-23-TR71	SMDJ45A-T7	5.0SMDJ64CA-T7	SMLJ15A-54T7	3.0SMCJ48CA-SAGT3R
3.0SMCJ14CA	SMCJ7.0CA-23-RG71	SMDJ48A-T7	5.0SMDJ70A-T7	SMLJ26CA-54T7	3.0SMCJ5.0A-GT3R
3.0SMCJ15A	SMCJ8.5CA-23-RG71	SMDJ51A-T7	5.0SMDJ70CA-T7	SMDJ70CA-N	3.0SMCJ51A-GT3R
3.0SMCJ15CA	SMCJ17CA-23-TR71	SMDJ54A-T7	5.0SMDJ75A-T7	3.0SMCJ33CA-GR-GT3	3.0SMCJ60CA-GT3R
3.0SMCJ16A	SMCJ17CA-23-RG71	SMDJ58A-T7	5.0SMDJ75CA-T7	3.0SMCJ33CAS-GRGT7	3.0SMCJ6.5A-GT3R
3.0SMCJ16CA	SMCJ18CA-23-TR71	SMDJ60CA-T7	5.0SMDJ78A-T7	3.0SMCJ33CAS-GRGT3	3.0SMCJ70A-SA-GT3R
3.0SMCJ17A	SMCJ20CA-23-TR71	SMDJ60A-T7	5.0SMDJ78CA-T7	3.0SMCJ8.5CASGRGT3	3.0SMCJ70CA-SAGT3R
3.0SMCJ17CA	SMCJ24CA-23-TR71	SMDJ64CA-T7	5.0SMDJ85A-T7	3.0SMCJ8.5CASGRGT7	3.0SMCJ7.0CA-GT3R
3.0SMCJ18A	SMCJ40CA-23-TR71	SMDJ64A-T7	5.0SMDJ85CA-T7	3.0SMCJ28CA-GRGT7R	3.0SMCJ7.5A-GT3R
3.0SMCJ18CA	SMCJ51CA-23-TR71	SMDJ70A-T7	5.0SMDJ90A-T7	3.0SMCJ15CAS-GRGT3	3.0SMCJ75CA-GT3R
3.0SMCJ20A	SMCJ60CA-23-RG71	SMDJ70CA-T7	5.0SMDJ90CA-T7	3.0SMCJ15CAS-GRGT7	3.0SMCJ78A-GT3R
3.0SMCJ20CA	SMCJ75CA-23-TR71	SMDJ75A-T7	5.0SMDJ100A-T7	SMDJ180CA-54T7	3.0SMCJ17CA-54T7
3.0SMCJ22A	SMCJ85CA-23-TR71	SMDJ75CA-T7	5.0SMDJ100CA-T7	3.0SMCJ18CA-GRGT7R	3.0SMCJ33CA-54T7
3.0SMCJ22CA	SMCJ24CAS-GR-GT3	SMDJ78CA-T7	5.0SMDJ110A-T7	3.0SMCJ20CA-GRGT7R	3.0SMCJ13CA-23-TR
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3.0SMCJ24CA	SMCJ15CA-ZG	SMDJ85A-T7	5.0SMDJ120A-T7	3.0SMCJ5.0CA-GRGT7	3.0SMCJ51A-23-RG71
3.0SMCJ26A	SMCJ5.0CAS-GT3	SMDJ85CA-T7	5.0SMDJ120CA-T7	SMDJ16A-ER	3.0SMCJ8.5CA-23-TR
3.0SMCJ26CA	SMCJ5.0CAS-GT7	SMDJ90A-T7	5.0SMDJ130A-T7	SMDJ16A-ER1	3.0SMCJ11CA-GR-GT3
3.0SMCJ28A	SMCJ6.5CAS-GT3	SMDJ90CA-T7	5.0SMDJ130CA-T7	5.0SMDJ150CA-HE	3.0SMCJ13CA-GR-GT3
3.0SMCJ28CA	SMCJ6.5CAS-GT7	SMDJ100A-T7	5.0SMDJ140A-T7	5.0SMDJ12A-TN	3.0SMCJ26CA-GR-GT3
3.0SMCJ30A	SMCJ10CAS-GT3	SMDJ100CA-T7	5.0SMDJ140CA-T7	5.0SMDJ14A-A	3.0SMCJ90CA-GR-GT3
3.0SMCJ30CA	SMCJ10CAS-GT7	SMDJ110A-T7	5.0SMDJ150A-T7	5.0SMDJ12AS-TN	SMDJ15CA-G
3.0SMCJ33A	SMCJ17CAS-GT3	SMDJ110CA-T7	5.0SMDJ150CA-T7	4.0SMDJ400CA-OP	3.0SMCJ18CAS-GRGT3
3.0SMCJ33CA	SMCJ17CAS-GT7	SMDJ120A-T7	5.0SMDJ160A-T7	5.0SMDJ400CA-OPPO	3.0SMCJ18CAS-GRGT7
3.0SMCJ36A	SMCJ18CAS-GT3	SMDJ120CA-T7	5.0SMDJ160CA-T7	5.0SMDJ24CA-ER	3.0SMCJ60CA
3.0SMCJ36CA	SMCJ18CAS-GT7	SMDJ130A-T7	5.0SMDJ170A-T7	5.0SMDJ75CA-ER	3.0SMCJ70CA
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3.0SMCJ40CA	SMCJ40CAS-GT7	SMDJ150A-T7	5.0SMDJ17CA-HW	5.0SMDJ75CA-ZTE	3.0SMCJ5.0CASGRGT7
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3.0SMCJ48CA	SMCJ60CAS-GT3	SMDJ160A-T7	5.0SMDJ58CA-DH	5.0SMDJ110A-ER	3.0SMCJ20CAS-GRGT7
3.0SMCJ51CA	SMCJ60CAS-GT7	SMDJ170CA-T7	5.0SMDJ40CA-T	5.0SMDJ85CA-AB	3.0SMCJ48CAS-GRGT3
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3.0SMCJ58CA	SMCJ64CAS-GT7	SMDJ180A-T7	5.0SMDJ130A-T	5.0SMDJ70CA-54T7	3.0SMCJ150CASGRGT3
				5.0SMDJ75CA-54T7	3.0SMCJ150CASGRGT7

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SMCJ6.5CA	1.5SMC8.2CA
SMCJ7.0A	1.5SMC9.1A
SMCJ7.0CA	1.5SMC9.1CA
SMCJ7.5A	1.5SMC10A
SMCJ7.5CA	1.5SMC10CA
SMCJ8.0A	1.5SMC11A
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SMCJ18A	1.5SMC33A
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SMCJ26A	1.5SMC47A
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SMCJ45A	1.5SMC91A
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SMCJ48A	1.5SMC100A
SMCJ48CA	1.5SMC100CA
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SMCJ58A	1.5SMC130A
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SMCJ60A	1.5SMC150A
SMCJ60CA	1.5SMC150CA
SMCJ64A	1.5SMC160A
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SMCJ70CA	1.5SMC170CA
SMCJ75A	1.5SMC180A
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SMCJ85A	1.5SMC220A
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Standard Part Numbers
3.0SMC20A
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3.0SMCJ8.5CA
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3.0SMCJ58A

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4.0SMDJ24A
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5.0SMDJ12A	Yes
5.0SMDJ12CA	Yes
5.0SMDJ13A	Yes
5.0SMDJ13CA	Yes
5.0SMDJ14A	Yes
5.0SMDJ14CA	Yes
5.0SMDJ15A	Yes
5.0SMDJ15CA	Yes
5.0SMDJ16A	Yes
5.0SMDJ16CA	Yes
5.0SMDJ17A	Yes
5.0SMDJ17CA	Yes
5.0SMDJ18A	Yes
5.0SMDJ18CA	Yes
5.0SMDJ20A	No
5.0SMDJ20CA	Yes
5.0SMDJ22A	Yes
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5.0SMDJ24A	Yes
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5.0SMDJ26A	Yes
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5.0SMDJ28A	Yes
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5.0SMDJ33A	Yes
5.0SMDJ36A	Yes
5.0SMDJ40A	Yes
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5.0SMDJ45A	Yes
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5.0SMDJ15A-T7	Yes
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5.0SMDJ54A-T7	Yes
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5.0SMDJ58A-T7	Yes
5.0SMDJ58CA-T7	Yes
5.0SMDJ60A-T7	Yes

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