8755 W. Higgins Road Suite 500
Chicago, Illinois USA 60631

Feb.14th 2020

RE: LFPCN41342 Surface Mounted Automotive and High-reliability TVS Tin plating 2nd source for Business Continuous Plan

To our valued customers,

To implement Littelfsue Business Continuous Plan, our Wuxi plant has qualified new Tin plating supplier of Jiangyin Sunny Orient Technology Co., Ltd (**Suyang**) as 2nd source. The qualification has been finished by end of 2019, and during this Corona-Virus (COVID-19) breakout, we would like to implement this 2nd soruce site urgently to support our continuous production and delivery.

Suyang has been qualified to automotive AECQ101 criteria and also IATF169494 certified and has been in production for orthe Littelfsue products.

We would provide in another attachement the qualificaiton report including Suyang certifications, also the impacted PNs (Automotive TPSMx, SLD8Sx and all Hi-Rel TVS) are all listed as apendix in the end of qualification report.

We would implement this 2nd source site by Feb. 24th 2020, without any FIT/Form/Funtion change.

This PCN is for your information and acknowledgement. If you require any specific data or product samples to certify this change, please contact Littelfuse® within 10 days of the notification date.

If you have any other questions or concerns, please contact your Littelfuse® local sales.

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

Best Regards,
Charlie Cai
Product Manager Automotive and Hi-Rel TVS

Littelfuse, WX
East 1# Zhen Fa 6 Road
Shuo Fang Industrial Park
Wuxi, Jiangsu 214142

Product Qualification Report

To: Those who may concern

From: Haipeng Xu, Senior Product Engineer, Littelfuse, Wuxi

Date: Feb 12th, 2020 – Rev.A

Subject: **Qualification Test Result for 2nd Plating Source Suyang of Surface Mounted Automotive/Hi-rel TVS in Wuxi Site LFPCN41342**

Purpose:

This report is to inform the successful qualification test results of plating 2nd source Suyang associated with surface mounted automotive/Hi-rel TVS in Wuxi site.

Conclusion:

According to the qualification result, Littelfuse concluded that Suyang is qualified as the 2nd plating source for surface mounted automotive/Hi-rel TVS in Wuxi site.

Best Regards,

Haipeng Xu

Senior Product Engineer
Littelfuse Semiconductor

1. Qualification Test Vehicle

Part Number	Package Type	Product Type
TPSMB200CA	SMB	automotive
SMBJ16A-HRA	SMB	hi-rel
SMBJ30CA-001	SMB	hi-rel
TPSMD22A	SMC	automotive
TPSMC47CA	SMC	automotive
SMDJ7.5CA-HRA	SMC	hi-rel
SLD8S22A	SM-TO263	automotive

2. Qualification Test Items and Result Summary

Reliability Test	Part Number	S. S	Test Condition	Test Ref #	Ref. Spec	Result Fail/Total
Pre-conditioning	TPSMB200CA	231	24hr 125°C bake, 168hrs 85°C/85% humidity storage, 3 times Reflow	127603	JESD22A-113	0/1155
	SMBJ16A-HRA	77		128412		
	SMBJ30CA-001	77		128846		
	TPSMD22A	231		130455		
	TPSMC47CA	154		127282		
	SMDJ7.5CA-HRA	154		128846		
	SLD8S22A	231		130160		
High Humidity High Temp. Reverse Bias (H3TRB)	TPSMB200CA	77	TA: 85°C, RH: 85%, 1000hr, Reverse biased at V_R or max 100V	127603	JESD22A-101	0/539
	SMBJ16A-HRA	77		128412		
	SMBJ30CA-001	77		128846		
	TPSMD22A	77		130455		
	TPSMC47CA	77		127282		
	SMDJ7.5CA-HRA	77		128846		
	SLD8S22A	77		130160		
Unbiased Highly Accelerated Stress Test (UHAST)	TPSMB200CA	77	96 hours at TA=130°C/85%RH.	127603	JESD22A-118	0/385
	TPSMD22A	77		130455		
	TPSMC47CA	77		127282		
	SMDJ7.5CA-HRA	77		128846		
	SLD8S22A	77		130160		
Temperature Cycling (TC)	TPSMB200CA	77	TA: -55°C to +150°C, dwell time >15mins, 1,000 cycle)	127603	JESD22A-104	0/231
	TPSMD22A	77		130455		
	SLD8S22A	77		130160		
Solderability	TPSMB200CA	10	245°C ± 5°C, 5 ± 0.5s	TINPWW001-F3	J-STD002	0/70
	SMBJ16A-HRA	10				
	SMBJ30CA-001	10				
	TPSMD22A	10				
	TPSMC47CA	10				
	SMDJ7.5CA-HRA	10				
	SLD8S22A	10				

Appendix 1: Leakage drift and distribution in stress tests

All qual vehicles pass reliability test and meet the drift requirement of AEC-Q101.

Note: The reference line is equal to or tighten than the specification defined in datasheet.

IR,TPSMB200CA@UHAST, Initial and Post
Normal - 95% CI
1000
Percent
IR(nA)
Variable
Id+ - Initial_1
Id- - Initial_1
Id+ - Post_1
Id-- Post_1
Mean StDev N AD P
100.5 10.40 77 1.158 <0.005
96.23 9.015 77 0.725 0.056
98.41 8.962 77 1.257 <0.005
98.15 7.716 77 0.912 0.019

Vz,TPSMB200CA@UHAST, Initial and Post
Normal - 95% CI
190
210
Percent
Vz(V)
Variable
Vz+ - Initial_1
Vz- - Initial_1
Vz+ - Post_1
Vz- - Post_1
Mean StDev N AD P
202.9 1.695 77 1.175 <0.005
203.1 1.669 77 0.878 0.023
202.4 1.664 77 1.179 <0.005
202.5 1.627 77 1.009 0.011

IR,SMBJ16A-HRA@H3TRB, Initial and Post
Normal - 95% CI
500
Percent
IR(nA)
Variable
Id - Initial
Id - Post
Mean StDev N AD P
16.86 0.9490 77 0.327 0.513
18.11 1.028 77 0.447 0.273

Vz,SMBJ16A-HRA@H3TRB, Initial and Post
Normal - 95% CI
17.8
19.7
Percent
Vz(V)
Variable
Vz - Initial
Vz - Post
Mean StDev N AD P
18.99 0.05895 77 1.139 0.005

IR,SMBJ30CA-001@H3TRB, Initial and Post
Normal - 95% CI
1000
Percent
IR(nA)
Variable
Id+ - Initial
Id- - Initial
Id+ - Post
Id-- Post
Mean StDev N AD P
9.446 1.032 77 1.414 <0.005
9.882 0.9847 77 0.588 0.121
11.27 1.806 77 4.221 <0.005
10.47 1.032 77 0.186 0.904

Vz,SMBJ30CA-001@H3TRB, Initial and Post
Normal - 95% CI
33.3
36.8
Percent
Vz(V)
Variable
Vz+ - Initial
Vz- - Initial
Vz+ - Post
Vz- - Post
Mean StDev N AD P
35.68 0.09234 77 0.782 0.041
35.67 0.09145 77 0.335 0.503
35.65 0.09589 77 0.543 0.158
35.64 0.09520 77 0.488 0.218

IR,TPSMD22A@H3TRB, Initial and Post
Normal - 95% CI
500
Percent
IR(nA)
Variable
Id - Initial
Id - Post
Mean StDev N AD P
17.24 2.870 77 0.752 0.048
17.16 0.096 77 1.035 0.010

Vz,TPSMD22A@H3TRB, Initial and Post
Normal - 95% CI
24.4
26.9
Percent
Vz(V)
Variable
Vz - Initial
Vz - Post
Mean StDev N AD P
25.61 0.06704 77 0.222 0.824
25.61 0.06646 77 0.211 0.853

IR,TPSMD22A@TC, Initial and Post
Normal - 95% CI
500
Percent
IR(nA)
Variable
Id - Initial_2
Id - Post_2
Mean StDev N AD P
17.08 3.376 77 2.450 <0.005
16.85 3.476 77 2.879 <0.005

Vz,TPSMD22A@TC, Initial and Post
Normal - 95% CI
24.4
26.9
Percent
Vz(V)
Variable
Vz - Initial_2
Vz - Post_2
Mean StDev N AD P
25.61 0.08370 77 1.478 <0.005

IR,TPSMD22A@UHAST, Initial and Post
Normal - 95% CI
500
Percent
IR(nA)
Variable
Id - Initial_1
Id - Post_1
Mean StDev N AD P
18.06 6.943 77 9.313 <0.005
17.06 7.123 77 0.883 <0.005

Vz,TPSMD22A@UHAST, Initial and Post
Normal - 95% CI
24.4
26.9
Percent
Vz(V)
Variable
Vz - Initial_1
Vz - Post_1
Mean StDev N AD P
25.60 0.06721 77 0.509 0.192
25.60 0.06710 77 0.496 0.207

IR,TPSMC47CA@ H3TRB, Initial and Post
Normal - 95% CI
1000
Percent
IR(nA)
Variable
Id+ - Initial
Id- - Initial
Id+ - Post
Id-- Post
Mean StDev N AD P
39.91 5.518 77 0.604 0.113
40.37 5.405 77 0.670 0.077
37.56 5.422 77 0.623 0.101

Vz,TPSMC47CA@H3TRB, Initial and Post
Normal - 95% CI
44.7
49.4
Percent
Vz(V)
Variable
Vz+ - Initial
Vz- - Initial
Vz+ - Post
Vz- - Post
Mean StDev N AD P
46.94 0.2993 77 1.263 <0.005
46.95 0.3157 77 2.163 <0.005
46.92 0.3167 77 1.488 <0.005
46.93 0.3313 77 2.332 <0.005

IR,TPSMC47CA@UHAST, Initial and Post
Normal - 95% CI
1000
Percent
IR(nA)
Variable
Id+ - Initial_1
Id- - Initial_1
Id+ - Post_1
Id-- Post_1
Mean StDev N AD P
37.90 5.588 77 1.911 <0.005
39.26 5.607 77 2.124 <0.005
37.51 5.345 77 1.842 <0.005
39.66 5.455 77 2.403 <0.005

Vz,TPSMC47CA@UHAST, Initial and Post
Normal - 95% CI
44.7
49.4
Percent
Vz(V)
Variable
Vz+ - Initial_1
Vz- - Initial_1
Vz+ - Post_1
Vz- - Post_1
Mean StDev N AD P
46.98 0.3059 77 0.981 0.013
46.93 0.3074 77 1.557 <0.005
46.95 0.3045 77 0.945 0.016
46.89 0.3048 77 1.490 <0.005

IR,SMDJ7.5CA-HRA@H3TRB, Initial and Post
Normal - 95% CI
400
Percent
IR(nA)
Variable
Id+ - Initial
Id- - Initial
Id+ - Post
Id-- Post
Mean StDev N AD P
65.65 3.620 77 1.314 <0.005
65.66 3.173 77 0.607 0.111
67.78 8.663 77 9.909 <0.005
65.94 4.127 77 1.358 <0.005

Vz,SMDJ7.5CA-HRA@H3TRB, Initial and Post
Normal - 95% CI
8.33
9.21
Percent
Vz(V)
Variable
Vz+ - Initial
Vz- - Initial
Vz+ - Post
Vz- - Post
Mean StDev N AD P
8.622 0.02063 77 0.566 0.138
8.629 0.02022 77 0.493 0.211
8.624 0.02461 77 1.640 <0.005
8.629 0.02255 77 0.451 0.268

IR,SMDJ7.5CA-HRA@UHAST, Initial and Post
Normal - 95% CI
400
Percent
IR(nA)
Variable
Id+ - Initial_1
Id- - Initial_1
Id+ - Post_1
Id-- Post_1
Mean StDev N AD P
66.04 3.227 77 1.703 <0.005
67.01 3.910 77 1.134 0.005
66.13 3.400 77 1.370 <0.005
67.00 4.027 77 1.490 <0.005

Vz,SMDJ7.5CA-HRA@UHAST, Initial and Post
Normal - 95% CI
8.33
9.21
Percent
Vz(V)
Variable
Vz+ - Initial_1
Vz- - Initial_1
Vz+ - Post_1
Vz- - Post_1
Mean StDev N AD P
8.629 0.02166 77 0.338 0.496
8.630 0.01764 77 0.452 0.266
8.629 0.02168 77 0.330 0.510
8.631 0.01777 77 0.409 0.339

IR,SLD8S22A@H3TRB, Initial and Post
Normal - 95% CI
1000
Percent
IR(nA)
Variable
Id - Initial
Id - Post
Mean StDev N AD P
47.13 6.425 77 0.481 0.226
43.76 5.692 77 0.253 0.727

Vz,SLD8S22A@H3TRB, Initial and Post
Normal - 95% CI
24.4
26.9
Percent
Vz(V)
Variable
Vz - Initial
Vz - Post
Mean StDev N AD P
25.16 0.1233 77 1.226 <0.005
25.13 0.1229 77 1.434 <0.005

IR,SLD8S22A@TC, Initial and Post
Normal - 95% CI
1000
Percent
IR(nA)
Variable
Id - Initial_2
Id - Post_2
Mean StDev N AD P
36.78 7.592 77 0.657 0.083
37.86 8.033 77 0.708 0.062

Vz,SLD8S22A@TC, Initial and Post
Normal - 95% CI
24.4
26.9
Percent
Vz(V)
Variable
Vz - Initial_2
Vz - Post_2
Mean StDev N AD P
25.24 0.1345 77 2.599 <0.005
25.26 0.1302 77 3.174 <0.005

IR,SLD8S22A@UHAST, Initial and Post
Normal - 95% CI
1000
Percent
IR(nA)
Variable
Id - Initial_1
Id - Post_1
Mean StDev N AD P
35.11 8.523 77 0.371 0.415
37.41 12.39 77 2.037 <0.005

Vz,SLD8S22A@UHAST, Initial and Post
Normal - 95% CI
24.4
26.9
Percent
Vz(V)
Variable
Vz - Initial_1
Vz - Post_1
Mean StDev N AD P
25.24 0.1396 77 1.361 <0.005
25.25 0.1313 77 2.107 <0.005

Littelfuse®

Expertise Applied | Answers Delivered

NSF ISR

Certificate of Registration

This certifies that the Quality Management System of

Jiangyin Sunny Orient Technology Co.,Ltd.

No.8-6, Xiangyang Road, Xiangyang Village, HuashiTown,
Jiangyin City, Jiangsu Province, China214421

Has been assessed by NSF-ISR and found to be in conformance to the following standards(s):

IATF 16949:2016

Scope of Registration:
Manufacture of Electroplate Tin Parts

Exclusions: Product Design

IATF Certificate Number:	0341773
Certificate Number:	CNIATF035193
Certificate Issue Date:	08-NOV-2018
Registration Date:	03-NOV-2018
Expiration Date*:	02-NOV-2021

Carl Blazik,
Director, Technical
Operations &Business Units,
NSF-ISR, Ltd.

NSF International Strategic Registrations

789 North Dixboro Road, Ann Arbor, Michigan 48105 | (888) NSF-9000 | www.nsf-isr.org

Authorized Registration and /or Accreditation Marks. This certificate is property of NSF-ISR and must be returned upon request.
*Company is audited for conformance at regular intervals. To verify registrations call (888) NSF-9000 or visit our web site at www.nsf-isr.org

Lloyd's Register

Certificate of Approval

This is to certify that the Management System of:

Jiangyin Sunny Orient Technology Co., Ltd.

No.1 Xiangyang Road, Xiangyang Village, Huashi Town, Jiangyin City, Jiangsu Province 214421, China

Unified Social Credit Code: 9132020057818605902

has been approved by LRQA to the following standards:

ISO 9001:2015

GB/T 19001-2016

Rhett Wang - Area Operations Manager, Greater China
Issued by: Lloyd's Register Quality Assurance (Shanghai) Co., Ltd.
for and on behalf of: Lloyd's Register Quality Assurance Limited

Current issue date: 11 December 2018
Expiry date. 10 December 2021
Certificate identity number: 10157064

Original approval(s):
ISO 9001 – 11 December 2012

Approval number(s): ISO 9001 – 0071560

The scope of this approval is applicable to:
Assembly and testing of semiconductor discrete components and integrated circuits.

UKAS MANAGEMENT SYSTEMS
001

The certificate can be checked for validity on CNCA website (www.cnca.gov.cn) 30 working days after the date of issuance. This approval is subject to surveillance assessment carried out in accordance with the LRQA assessment and certification procedures.
Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.
Issued by: Lloyd's Register Quality Assurance (Shanghai) Co., Ltd., Room 2018, Ocean Tower, No. 550 Yan An Dong Road, Shanghai, 200001 for and on behalf of: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom

Page 1 of 1

Expertise Applied | Answers Delivered

Appendix 2: Affected PN list

TPSMB			TPSMB-VR		
TPSMB7.5A	TPSMB56CA	TPSMB300CA-A	TPSMB6.5A-VR	TPSMB36A-VR	TPSMB160A-VR
TPSMB8.2A	TPSMB58A	TPSMB350A-A	TPSMB7.0A-VR	TPSMB36CA-VR	TPSMB160CA-VR
TPSMB9.1A	TPSMB58CA	TPSMB350CA-A	TPSMB7.5A-VR	TPSMB40A-VR	TPSMB170A-VR
TPSMB10A	TPSMB62A	TPSMB400CA-A	TPSMB8.0A-VR	TPSMB40CA-VR	TPSMB170CA-VR
TPSMB10CA	TPSMB62CA	TPSMB440CA-A	TPSMB8.5A-VR	TPSMB43A-VR	TPSMB180A-VR
TPSMB11A	TPSMB64A	TPSMB400A-A	TPSMB8.5CA-VR	TPSMB43CA-VR	TPSMB180CA-VR
TPSMB11CA	TPSMB64CA	TPSMB440A-A	TPSMB9.0A-VR	TPSMB45A-VR	TPSMB188A-VR
TPSMB12A	TPSMB68A	TPSMB480A-A	TPSMB9.0CA-VR	TPSMB45CA-VR	TPSMB188CA-VR
TPSMB12CA	TPSMB68CA	TPSMB480CA-A	TPSMB10A-VR	TPSMB48A-VR	TPSMB200A-VR
TPSMB13A	TPSMB75A	TPSMB510A-A	TPSMB10CA-VR	TPSMB48CA-VR	TPSMB200CA-VR
TPSMB13CA	TPSMB75CA	TPSMB510CA-A	TPSMB11A-VR	TPSMB51A-VR	TPSMB220A-VR
TPSMB15A	TPSMB82A	TPSMB520A-A	TPSMB11CA-VR	TPSMB51CA-VR	TPSMB220CA-VR
TPSMB15CA	TPSMB82CA	TPSMB520CA-A	TPSMB12A-VR	TPSMB54A-VR	TPSMB250A-VR
TPSMB16A	TPSMB91A	TPSMB530A-A	TPSMB12CA-VR	TPSMB54CA-VR	TPSMB250CA-VR
TPSMB16CA	TPSMB91CA	TPSMB530CA-A	TPSMB13A-VR	TPSMB58A-VR	TPSMB300A-VR
TPSMB18A	TPSMB100A	TPSMB540A-A	TPSMB13CA-VR	TPSMB58CA-VR	TPSMB300CA-VR
TPSMB18CA	TPSMB100CA	TPSMB540CA-A	TPSMB14A-VR	TPSMB60A-VR	TPSMB350A-VR
TPSMB20A	TPSMB110A	TPSMB550A-A	TPSMB14CA-VR	TPSMB60CA-VR	TPSMB350CA-VR
TPSMB20CA	TPSMB110CA	TPSMB550CA-A	TPSMB15A-VR	TPSMB64A-VR	TPSMB400A-VR
TPSMB22A	TPSMB120A	TPSMB600CA-A	TPSMB15CA-VR	TPSMB64CA-VR	TPSMB400CA-VR
TPSMB22CA	TPSMB120CA	TPSMB650CA-A	TPSMB16A-VR	TPSMB70A-VR	TPSMB440A-VR
TPSMB24A	TPSMB130A		TPSMB16CA-VR	TPSMB70CA-VR	TPSMB440CA-VR
TPSMB24CA	TPSMB130CA		TPSMB17A-VR	TPSMB75A-VR	
TPSMB27A	TPSMB150A		TPSMB17CA-VR	TPSMB75CA-VR	
TPSMB27CA	TPSMB150CA		TPSMB18A-VR	TPSMB78A-VR	
TPSMB30A	TPSMB160A		TPSMB18CA-VR	TPSMB78CA-VR	
TPSMB30CA	TPSMB160CA		TPSMB20A-VR	TPSMB85A-VR	
TPSMB33A	TPSMB170A		TPSMB20CA-VR	TPSMB85CA-VR	
TPSMB33CA	TPSMB170CA		TPSMB22A-VR	TPSMB90A-VR	
TPSMB36A	TPSMB180A		TPSMB22CA-VR	TPSMB90CA-VR	
TPSMB36CA	TPSMB180CA		TPSMB24A-VR	TPSMB100A-VR	
TPSMB39A	TPSMB200A		TPSMB24CA-VR	TPSMB100CA-VR	
TPSMB39CA	TPSMB200CA		TPSMB26A-VR	TPSMB110A-VR	
TPSMB43A	TPSMB210A		TPSMB26CA-VR	TPSMB110CA-VR	
TPSMB43CA	TPSMB210CA		TPSMB28A-VR	TPSMB120A-VR	
TPSMB47A	TPSMB220A		TPSMB28CA-VR	TPSMB120CA-VR	
TPSMB47CA	TPSMB220CA		TPSMB30A-VR	TPSMB130A-VR	
TPSMB51A	TPSMB250A		TPSMB30CA-VR	TPSMB130CA-VR	
TPSMB51CA	TPSMB250CA		TPSMB33A-VR	TPSMB150A-VR	
TPSMB56A	TPSMB300A-A		TPSMB33CA-VR	TPSMB150CA-VR	

Expertise Applied | Answers Delivered

TPSMC		TPSMC-VR		TPSMD		SLD8S
TPSMC12A	TPSMC82A	TPSMC11A-VR	TPSMC51A-VR	TPSMD10A	TPSMD48A	SLD8S12A
TPSMC12CA	TPSMC82CA	TPSMC11CA-VR	TPSMC51CA-VR	TPSMD11A	TPSMD48CA	SLD8S13A
TPSMC13A	TPSMC91A	TPSMC12A-VR	TPSMC54A-VR	TPSMD12A	TPSMD48CA-T7	SLD8S14A
TPSMC13CA	TPSMC91CA	TPSMC12CA-VR	TPSMC54CA-VR	TPSMD13A	TPSMD51A	SLD8S15A
TPSMC15A	TPSMC100A	TPSMC13A-VR	TPSMC58A-VR	TPSMD14A	TPSMD51CA	SLD8S16A
TPSMC15CA	TPSMC200CA	TPSMC13CA-VR	TPSMC58CA-VR	TPSMD15A	TPSMD54A	SLD8S17A
TPSMC16A		TPSMC14A-VR	TPSMC60A-VR	TPSMD16A	TPSMD54CA	SLD8S18A
TPSMC16CA		TPSMC14CA-VR	TPSMC60CA-VR	TPSMD17A	TPSMD58A	SLD8S20A
TPSMC18A		TPSMC15A-VR	TPSMC64A-VR	TPSMD18A	TPSMD58CA	SLD8S22A
TPSMC18CA		TPSMC15CA-VR	TPSMC64CA-VR	TPSMD20A	TPSMD60A	SLD8S24A
TPSMC20A		TPSMC16A-VR	TPSMC70A-VR	TPSMD22A	TPSMD60CA	SLD8S26A
TPSMC20CA		TPSMC16CA-VR	TPSMC70CA-VR	TPSMD24A	TPSMD64A	SLD8S27A
TPSMC22A		TPSMC17A-VR	TPSMC75A-VR	TPSMD26A	TPSMD64CA	SLD8S28A
TPSMC22CA		TPSMC17CA-VR	TPSMC75CA-VR	TPSMD28A	TPSMD70A	SLD8S30A
TPSMC24A		TPSMC18A-VR	TPSMC78A-VR	TPSMD30A	TPSMD70CA	SLD8S33A
TPSMC24CA		TPSMC18CA-VR	TPSMC78CA-VR	TPSMD33A	TPSMD75A	SLD8S36A
TPSMC27A		TPSMC20A-VR	TPSMC85A-VR	TPSMD36A	TPSMD75CA	SLD8S40A
TPSMC27CA		TPSMC20CA-VR	TPSMC85CA-VR	TPSMD40A	TPSMD78A	SLD8S43A
TPSMC30A		TPSMC22A-VR		TPSMD43A	TPSMD78CA	SLD8S45A
TPSMC30CA		TPSMC22CA-VR		TPSMD10CA	TPSMD85A	SLD8S48A
TPSMC33A		TPSMC24A-VR		TPSMD11CA	TPSMD85CA	SLD8S51A
TPSMC33CA		TPSMC24CA-VR		TPSMD12CA		SLD8S57A
TPSMC36A		TPSMC26A-VR		TPSMD13CA		
TPSMC36CA		TPSMC26CA-VR		TPSMD14CA		
TPSMC39A		TPSMC28A-VR		TPSMD15CA		
TPSMC39CA		TPSMC28CA-VR		TPSMD16CA		
TPSMC43A		TPSMC30A-VR		TPSMD17CA		
TPSMC43CA		TPSMC30CA-VR		TPSMD18CA		
TPSMC47A		TPSMC33A-VR		TPSMD20CA		
TPSMC47CA		TPSMC33CA-VR		TPSMD22CA		
TPSMC51A		TPSMC36A-VR		TPSMD24CA		
TPSMC51CA		TPSMC36CA-VR		TPSMD26CA		
TPSMC56A		TPSMC40A-VR		TPSMD28CA		
TPSMC56CA		TPSMC40CA-VR		TPSMD30CA		
TPSMC62A		TPSMC43A-VR		TPSMD33CA		
TPSMC62CA		TPSMC43CA-VR		TPSMD36CA		
TPSMC68A		TPSMC45A-VR		TPSMD40CA		
TPSMC68CA		TPSMC45CA-VR		TPSMD43CA		
TPSMC75A		TPSMC48A-VR		TPSMD45A		
TPSMC75CA		TPSMC48CA-VR		TPSMD45CA		

-001

SMAJ5.0A-001	SMAJ45A-001T13	SMBJ10C-001	SMBJ30-001T13	SMBJ75C-001T13	SMBJ350A-001	SMCJ26CA-001	SMCJ170CA-001T13	SMDJ36CA-001T13	5.0SMDJ12A-001T13
SMAJ5.0A-001T13	SMAJ48A-001	SMBJ10C-001T13	SMBJ30A-001	SMBJ75CA-001	SMBJ350A-001T13	SMCJ26CA-001T13	SMCJ180CA-0011	SMDJ40A-001	5.0SMDJ12CA-001T13
SMAJ5.0CA-001	SMAJ48A-001T13	SMBJ10CA-001	SMBJ30A-001T13	SMBJ75CA-001T13	SMBJ350C-001	SMCJ28A-001	SMDJ5.0A-001	SMDJ40A-001T13	5.0SMDJ13A-001T13
SMAJ5.0CA-001T13	SMAJ51A-001	SMBJ10CA-001T13	SMBJ30C-001	SMBJ78-001	SMBJ350C-001T13	SMCJ28A-001T13	SMDJ5.0A-001T13	SMDJ40CA-001	5.0SMDJ13CA-001T13
SMAJ6.0A-001	SMAJ51A-001T13	SMBJ11-001	SMBJ30C-001T13	SMBJ78-001T13	SMBJ350CA-001	SMCJ28CA-001	SMDJ5.0CA-001	SMDJ40CA-001T13	5.0SMDJ14A-001T13
SMAJ6.0A-001T13	SMAJ54A-001	SMBJ11-001T13	SMBJ30CA-001	SMBJ78A-001	SMBJ350CA-001T13	SMCJ28CA-001T13	SMDJ5.0CA-001T13	SMDJ43A-001	5.0SMDJ14CA-001T13
SMAJ6.0CA-001	SMAJ54A-001T13	SMBJ11A-001	SMBJ30CA-001T13	SMBJ78A-001T13	SMBJ400-001	SMCJ30-001	SMDJ6.0A-001	SMDJ43A-001T13	5.0SMDJ15A-001T13
SMAJ6.0CA-001T13	SMAJ58A-001	SMBJ11A-001T13	SMBJ33-001	SMBJ78C-001	SMBJ400-001T13	SMCJ30-001T13	SMDJ6.0A-001T13	SMDJ43C-001	5.0SMDJ15CA-001T13
SMAJ6.5A-001	SMAJ58A-001T13	SMBJ11C-001	SMBJ33-001T13	SMBJ78C-001T13	SMBJ400A-001	SMCJ30A-001	SMDJ6.0CA-001	SMDJ43C-001T13	5.0SMDJ16A-001T13
SMAJ6.5A-001T13	SMAJ60A-001	SMBJ11C-001T13	SMBJ33A-001	SMBJ78CA-001	SMBJ400A-001T13	SMCJ30A-001T13	SMDJ6.0CA-001T13	SMDJ43CA-001	5.0SMDJ16CA-001T13
SMAJ6.5CA-001	SMAJ60A-001T13	SMBJ11CA-001	SMBJ33A-001T13	SMBJ78CA-001T13	SMBJ400C-001	SMCJ30CA-001	SMDJ6.5A-001	SMDJ43CA-001T13	5.0SMDJ17A-001T13
SMAJ6.5CA-001T13	SMAJ64A-001	SMBJ11CA-001T13	SMBJ33C-001	SMBJ85-001	SMBJ400C-001T13	SMCJ30CA-001T13	SMDJ6.5A-001T13	SMDJ45A-001	5.0SMDJ17CA-001T13
SMAJ7.0A-001	SMAJ64A-001T13	SMBJ12-001	SMBJ33C-001T13	SMBJ85-001T13	SMBJ400CA-001	SMCJ33A-001	SMDJ6.5CA-001	SMDJ45A-001T13	5.0SMDJ18A-001T13
SMAJ7.0A-001T13	SMAJ70A-001	SMBJ12-001T13	SMBJ33CA-001	SMBJ85A-001	SMBJ400CA-001T13	SMCJ33A-001T13	SMDJ6.5CA-001T13	SMDJ48A-001	5.0SMDJ18CA-001T13
SMAJ7.0CA-001	SMAJ70A-001T13	SMBJ12A-001	SMBJ33CA-001T13	SMBJ85A-001T13	SMBJ440-001	SMCJ33CA-001	SMDJ7.0A-001	SMDJ48A-001T13	5.0SMDJ20A-001T13
SMAJ7.0CA-001T13	SMAJ75A-001	SMBJ12A-001T13	SMBJ36-001	SMBJ85C-001	SMBJ440-001T13	SMCJ33CA-001T13	SMDJ7.0A-001T13	SMDJ51A-001	5.0SMDJ20CA-001T13
SMAJ7.5A-001	SMAJ75A-001T13	SMBJ12C-001	SMBJ36-001T13	SMBJ85C-001T13	SMBJ440A-001	SMCJ36A-001	SMDJ7.0CA-001	SMDJ51A-001T13	5.0SMDJ22A-001T13
SMAJ7.5A-001T13	SMAJ78A-001	SMBJ12C-001T13	SMBJ36A-001	SMBJ85CA-001	SMBJ440A-001T13	SMCJ36A-001T13	SMDJ7.0CA-001T13	SMDJ54A-001	5.0SMDJ22CA-001T13
SMAJ7.5CA-001	SMAJ78A-001T13	SMBJ12CA-001	SMBJ36A-001T13	SMBJ85CA-001T13	SMBJ440C-001	SMCJ36CA-001	SMDJ7.5A-001	SMDJ54A-001T13	5.0SMDJ24A-001T13
SMAJ7.5CA-001T13	SMAJ85A-001	SMBJ12CA-001T13	SMBJ36C-001	SMBJ90-001	SMBJ440C-001T13	SMCJ36CA-001T13	SMDJ7.5A-001T13	SMDJ58A-001	5.0SMDJ24CA-001T13
SMAJ8.0A-001	SMAJ85A-001T13	SMBJ13-001	SMBJ36C-001T13	SMBJ90-001T13	SMBJ440CA-001	SMCJ40A-001	SMDJ7.5CA-001	SMDJ58A-001T13	5.0SMDJ26A-001T13
SMAJ8.0A-001T13	SMAJ90A-001	SMBJ13-001T13	SMBJ36CA-001	SMBJ90A-001	SMBJ440CA-001T13	SMCJ40A-001T13	SMDJ7.5CA-001T13	SMDJ60A-001	5.0SMDJ26CA-001T13
SMAJ8.0CA-001	SMAJ90A-001T13	SMBJ13A-001	SMBJ36CA-001T13	SMBJ90A-001T13	SMCJ5.0A-001	SMCJ40C-001	SMDJ8.0A-001	SMDJ60A-001T13	5.0SMDJ28A-001T13
SMAJ8.0CA-001T13	SMAJ100A-001	SMBJ13A-001T13	SMBJ40-001	SMBJ90C-001	SMCJ5.0A-001T13	SMCJ40C-001T13	SMDJ8.0A-001T13	SMDJ64A-001	5.0SMDJ28CA-001T13
SMAJ8.5A-001	SMAJ100A-001T13	SMBJ13C-001	SMBJ40-001T13	SMBJ90C-001T13	SMCJ5.0C-001	SMCJ40CA-001	SMDJ8.0CA-001	SMDJ64A-001T13	5.0SMDJ30A-001T13
SMAJ8.5A-001T13	SMAJ110A-001	SMBJ13C-001T13	SMBJ40A-001	SMBJ90CA-001	SMCJ5.0CA-001	SMCJ40CA-001T13	SMDJ8.0CA-001T13	SMDJ70A-001	5.0SMDJ30CA-001T13
SMAJ8.5CA-001	SMAJ110A-001T13	SMBJ13CA-001	SMBJ40A-001T13	SMBJ90CA-001T13	SMCJ5.0CA-001T13	SMCJ43A-001	SMDJ8.5A-001	SMDJ70A-001T13	5.0SMDJ33A-001T13
SMAJ8.5CA-001T13	SMAJ120A-001	SMBJ13CA-001T13	SMBJ40C-001	SMBJ100-001	SMCJ6.0A-001	SMCJ43A-001T13	SMDJ8.5A-001T13	SMDJ75A-001	5.0SMDJ33CA-001T13
SMAJ9.0A-001	SMAJ120A-001T13	SMBJ14-001	SMBJ40C-001T13	SMBJ100-001T13	SMCJ6.0A-001T13	SMCJ43C-001	SMDJ8.5CA-001	SMDJ75A-001T13	5.0SMDJ36A-001T13
SMAJ9.0A-001T13	SMAJ130A-001	SMBJ14-001T13	SMBJ40CA-001	SMBJ100A-001	SMCJ6.0CA-001	SMCJ43C-001T13	SMDJ8.5CA-001T13	SMDJ78A-001	5.0SMDJ36CA-001T13
SMAJ9.0CA-001	SMAJ130A-001T13	SMBJ14A-001	SMBJ40CA-001T13	SMBJ100A-001T13	SMCJ6.0CA-001T13	SMCJ43CA-001	SMDJ9.0A-001	SMDJ78A-001T13	5.0SMDJ40A-001T13
SMAJ9.0CA-001T13	SMAJ150A-001	SMBJ14A-001T13	SMBJ43-001	SMBJ100C-001	SMCJ6.5A-001	SMCJ43CA-001T13	SMDJ9.0A-001T13	SMDJ85A-001	5.0SMDJ40CA-001T13
SMAJ10A-001	SMAJ150A-001T13	SMBJ14C-001	SMBJ43-001T13	SMBJ100C-001T13	SMCJ6.5A-001T13	SMCJ45A-001	SMDJ9.0CA-001	SMDJ85A-001T13	5.0SMDJ43A-001T13
SMAJ10A-001T13	SMAJ160A-001	SMBJ14C-001T13	SMBJ43A-001	SMBJ100CA-001	SMCJ6.5C-001	SMCJ45A-001T13	SMDJ9.0CA-001T13	SMDJ90A-001	5.0SMDJ43CA-001T13
SMAJ10CA-001	SMAJ160A-001T13	SMBJ14CA-001	SMBJ43A-001T13	SMBJ100CA-001T13	SMCJ6.5C-001T13	SMCJ45CA-001	SMDJ10A-001	SMDJ90A-001T13	5.0SMDJ45A-001T13
SMAJ10CA-001T13	SMAJ170A-001	SMBJ14CA-001T13	SMBJ43C-001	SMBJ110-001	SMCJ6.5CA-001	SMCJ45CA-001T13	SMDJ10A-001T13	SMDJ100A-001	5.0SMDJ45CA-001T13
SMAJ11A-001	SMAJ170A-001T13	SMBJ15-001	SMBJ43C-001T13	SMBJ110-001T13	SMCJ6.5CA-001T13	SMCJ48A-001	SMDJ10CA-001	SMDJ100A-001T13	5.0SMDJ48A-001T13
SMAJ11A-001T13	SMAJ200A-001	SMBJ15-001T13	SMBJ43CA-001	SMBJ110A-001	SMCJ7.0A-001	SMCJ48A-001T13	SMDJ10CA-001T13	SMDJ110A-001	5.0SMDJ51A-001T13
SMAJ11CA-001	SMAJ200A-001T13	SMBJ15A-001	SMBJ43CA-001T13	SMBJ110A-001T13	SMCJ7.0A-001T13	SMCJ48CA-001	SMDJ11A-001	SMDJ110A-001T13	5.0SMDJ54A-001T13
SMAJ11CA-001T13	SMAJ170CA-001	SMBJ15A-001T13	SMBJ43CA-001C7	SMBJ110C-001	SMCJ7.0CA-001	SMCJ48CA-001T13	SMDJ11A-001T13	SMDJ120A-001	5.0SMDJ58A-001T13
SMAJ12A-001	SMAJ170CA-001T13	SMBJ15C-001	SMBJ45-001	SMBJ110C-001T13	SMCJ7.0CA-001T13	SMCJ51A-001	SMDJ11CA-001	SMDJ120A-001T13	5.0SMDJ60A-001T13
SMAJ12A-001T13	SMBJ5.0-001	SMBJ15C-001T13	SMBJ45-001T13	SMBJ110CA-001	SMCJ7.5A-001	SMCJ51A-001T13	SMDJ11CA-001T13	SMDJ130A-001	5.0SMDJ64A-001T13
SMAJ12CA-001	SMBJ5.0-001T13	SMBJ15CA-001	SMBJ45A-001	SMBJ110CA-001T13	SMCJ7.5A-001T13	SMCJ51CA-001	SMDJ12A-001	SMDJ130A-001T13	5.0SMDJ70A-001T13
SMAJ12CA-001T13	SMBJ5.0A-001	SMBJ15CA-001T13	SMBJ45A-001T13	SMBJ120-001	SMCJ7.5CA-001	SMCJ51CA-001T13	SMDJ12A-001T13	SMDJ150A-001	5.0SMDJ75A-001T13
SMAJ13A-001	SMBJ5.0A-001T13	SMBJ16-001	SMBJ45C-001	SMBJ120-001T13	SMCJ7.5CA-001T13	SMCJ54A-001	SMDJ12C-001	SMDJ150A-001T13	5.0SMDJ78A-001T13
SMAJ13A-001T13	SMBJ5.0C-001	SMBJ16-001T13	SMBJ45C-001T13	SMBJ120A-001	SMCJ8.0A-001	SMCJ54A-001T13	SMDJ12C-001T13	SMDJ160A-001	5.0SMDJ85A-001T13
SMAJ13CA-001	SMBJ5.0C-001T13	SMBJ16A-001	SMBJ45CA-001	SMBJ120A-001T13	SMCJ8.0A-001T13	SMCJ54CA-001	SMDJ12CA-001	SMDJ160A-001T13	5.0SMDJ90A-001T13
SMAJ13CA-001T13	SMBJ5.0CA-001	SMBJ16A-001T13	SMBJ45CA-001T13	SMBJ120C-001	SMCJ8.0CA-001	SMCJ54CA-001T13	SMDJ12CA-001T13	SMDJ170A-001	5.0SMDJ100A-001T13
SMAJ14A-001	SMBJ5.0CA-001T13	SMBJ16C-001	SMBJ48-001	SMBJ120C-001T13	SMCJ8.0CA-001T13	SMCJ58A-001	SMDJ13A-001	SMDJ170A-001T13	5.0SMDJ100CA-001
SMAJ14A-001T13	SMBJ6.0-001	SMBJ16C-001T13	SMBJ48-001T13	SMBJ120CA-001	SMCJ8.5A-001	SMCJ58A-001T13	SMDJ13A-001T13	SMDJ54CA-001	5.0SMDJ110A-001T13
SMAJ14CA-001	SMBJ6.0-001T13	SMBJ16CA-001	SMBJ48A-001	SMBJ120CA-001T13	SMCJ8.5A-001T13	SMCJ58CA-001	SMDJ13CA-001	SMDJ54CA-001T13	5.0SMDJ120A-001T13
SMAJ14CA-001T13	SMBJ6.0A-001	SMBJ16CA-001T13	SMBJ48A-001T13	SMBJ130-001	SMCJ8.5CA-001	SMCJ58CA-001T13	SMDJ13CA-001T13	SMDJ100CA-001	5.0SMDJ130A-001T13
SMAJ15A-001	SMBJ6.0A-001T13	SMBJ17-001	SMBJ48C-001	SMBJ130-001T13	SMCJ8.5CA-001T13	SMCJ60A-001	SMDJ14A-001	SMDJ100CA-001T13	5.0SMDJ150A-001T13
SMAJ15A-001T13	SMBJ6.0C-001	SMBJ17-001T13	SMBJ48C-001T13	SMBJ130A-001	SMCJ9.0A-001	SMCJ60A-001T13	SMDJ14A-001T13		5.0SMDJ160A-001T13
SMAJ15CA-001	SMBJ6.0C-001T13	SMBJ17A-001	SMBJ48CA-001	SMBJ130A-001T13	SMCJ9.0A-001T13	SMCJ60CA-001	SMDJ14C-001		5.0SMDJ170A-001T13
SMAJ15CA-001T13	SMBJ6.0CA-001	SMBJ17A-001T13	SMBJ48CA-001T13	SMBJ130C-001	SMCJ9.0CA-001	SMCJ60CA-001T13	SMDJ14C-001T13		5.0SMDJ12A-001T7
SMAJ16A-001	SMBJ6.0CA-001T13	SMBJ17C-001	SMBJ51-001	SMBJ130C-001T13	SMCJ9.0CA-001T13	SMCJ64A-001	SMDJ14CA-001		5.0SMDJ12CA-001T7
SMAJ16A-001T13	SMBJ6.5-001	SMBJ17C-001T13	SMBJ51-001T13	SMBJ130CA-001	SMCJ10A-001	SMCJ64A-001T13	SMDJ14CA-001T13		5.0SMDJ13A-001T7
SMAJ16CA-001	SMBJ6.5-001T13	SMBJ17CA-001	SMBJ51A-001	SMBJ130CA-001T13	SMCJ10A-001T13	SMCJ64C-001	SMDJ15A-001		5.0SMDJ13CA-001T7
SMAJ16CA-001T13	SMBJ6.5A-001	SMBJ17CA-001T13	SMBJ51A-001T13	SMBJ150-001	SMCJ10CA-001	SMCJ64C-001T13	SMDJ15A-001T13		5.0SMDJ14A-001T7
SMAJ17A-001	SMBJ6.5A-001T13	SMBJ18-001	SMBJ51C-001	SMBJ150-001T13	SMCJ10CA-001T13	SMCJ64CA-001	SMDJ15CA-001		5.0SMDJ14CA-001T7
SMAJ17A-001T13	SMBJ6.5C-001	SMBJ18-001T13	SMBJ51C-001T13	SMBJ150A-001	SMCJ11A-001	SMCJ64CA-001T13	SMDJ15CA-001T13		5.0SMDJ15A-001T7
SMAJ17CA-001	SMBJ6.5C-001T13	SMBJ18A-001	SMBJ51CA-001	SMBJ150A-001T13	SMCJ11A-001T13	SMCJ70A-001	SMDJ16A-001		5.0SMDJ15CA-001T7
SMAJ17CA-001T13	SMBJ6.5CA-001	SMBJ18A-001T13	SMBJ51CA-001T13	SMBJ150C-001	SMCJ11CA-001	SMCJ70A-001T13	SMDJ16A-001T13		5.0SMDJ16A-001T7
SMAJ18A-001	SMBJ6.5CA-001T13	SMBJ18C-001	SMBJ54-001	SMBJ150C-001T13	SMCJ11CA-001T13	SMCJ70CA-001	SMDJ16CA-001		5.0SMDJ16CA-001T7
SMAJ18A-001T13	SMBJ7.0-001	SMBJ18C-001T13	SMBJ54-001T13	SMBJ150CA-001	SMCJ12A-001	SMCJ70CA-001T13	SMDJ16CA-001T13		5.0SMDJ17A-001T7
SMAJ18CA-001	SMBJ7.0-001T13	SMBJ18CA-001	SMBJ54A-001	SMBJ150CA-001T13	SMCJ12A-001T13	SMCJ75A-001	SMDJ17A-001		5.0SMDJ17CA-001T7
SMAJ18CA-001T13	SMBJ7.0A-001	SMBJ18CA-001T13	SMBJ54A-001T13	SMBJ160-001	SMCJ12CA-001	SMCJ75A-001T13	SMDJ17A-001T13		5.0SMDJ18A-001T7
SMAJ20A-001	SMBJ7.0A-001T13	SMBJ20-001	SMBJ54C-001	SMBJ160-001T13	SMCJ12CA-001T13	SMCJ75CA-001	SMDJ17CA-001		5.0SMDJ18CA-001T7
SMAJ20A-001T13	SMBJ7.0C-001	SMBJ20-001T13	SMBJ54C-001T13	SMBJ160A-001	SMCJ13A-001	SMCJ75CA-001T13	SMDJ17CA-001T13		5.0SMDJ20A-001T7
SMAJ20CA-001	SMBJ7.0C-001T13	SMBJ20A-001	SMBJ54CA-001	SMBJ160A-001T13	SMCJ13A-001T13	SMCJ78A-001	SMDJ18A-001		5.0SMDJ20CA-001T7
SMAJ20CA-001T13	SMBJ7.0CA-001	SMBJ20A-001T13	SMBJ54CA-001T13	SMBJ160C-001	SMCJ13CA-001	SMCJ78A-001T13	SMDJ18A-001T13		5.0SMDJ22A-001T7
SMAJ22A-001	SMBJ7.0CA-001T13	SMBJ20C-001	SMBJ58-001	SMBJ160C-001T13	SMCJ13CA-001T13	SMCJ78CA-001	SMDJ18CA-001		5.0SMDJ22CA-001T7
SMAJ22A-001T13	SMBJ7.5-001	SMBJ20C-001T13	SMBJ58-001T13	SMBJ160CA-001	SMCJ14A-001	SMCJ78CA-001T13	SMDJ18CA-001T13		5.0SMDJ24A-001T7
SMAJ22CA-001	SMBJ7.5-001T13	SMBJ20CA-001	SMBJ58A-001	SMBJ160CA-001T13	SMCJ14A-001T13	SMCJ85A-001	SMDJ20A-001		5.0SMDJ24CA-001T7
SMAJ22CA-001T13	SMBJ7.5A-001	SMBJ20CA-001T13	SMBJ58A-001T13	SMBJ170-001	SMCJ14CA-001	SMCJ85A-001T13	SMDJ20A-001T13		5.0SMDJ26A-001T7
SMAJ24A-001	SMBJ7.5A-001T13	SMBJ22-001	SMBJ58C-001	SMBJ170-001T13	SMCJ14CA-001T13	SMCJ85CA-001	SMDJ20CA-001		5.0SMDJ26CA-001T7
SMAJ24A-001T13	SMBJ7.5C-001	SMBJ22-001T13	SMBJ58C-001T13	SMBJ170A-001	SMCJ15A-001	SMCJ85CA-001T13	SMDJ20CA-001T13		5.0SMDJ28A-001T7
SMAJ24CA-001	SMBJ7.5C-001T13	SMBJ22A-001	SMBJ58CA-001	SMBJ170A-001T13	SMCJ15A-001T13	SMCJ90A-001	SMDJ22A-001		5.0SMDJ28CA-001T7
SMAJ24CA-001T13	SMBJ7.5CA-001	SMBJ22A-001T13	SMBJ58CA-001T13	SMBJ170C-001	SMCJ15C-001	SMCJ90A-001T13	SMDJ22A-001T13		5.0SMDJ30A-001T7
SMAJ26A-001	SMBJ7.5CA-001T13	SMBJ22C-001	SMBJ60-001	SMBJ170C-001T13	SMCJ15C-001T13	SMCJ90CA-001	SMDJ22C-001		5.0SMDJ30CA-001T7
SMAJ26A-001T13	SMBJ8.0-001	SMBJ22C-001T13	SMBJ60-001T13	SMBJ170CA-001	SMCJ15CA-001	SMCJ90CA-001T13	SMDJ22C-001T13		5.0SMDJ33A-001T7
SMAJ26CA-001	SMBJ8.0-001T13	SMBJ22CA-001	SMBJ60A-001	SMBJ170CA-001T13	SMCJ15CA-001T13	SMCJ100A-001	SMDJ22CA-001		5.0SMDJ33CA-001T7
SMAJ26CA-001T13	SMBJ8.0A-001	SMBJ22CA-001T13	SMBJ60A-001T13	SMBJ200-001	SMCJ16A-001	SMCJ100A-001T13	SMDJ22CA-001T13		5.0SMDJ36A-001T7
SMAJ28A-001	SMBJ8.0A-001T13	SMBJ24-001	SMBJ60C-001	SMBJ200-001T13	SMCJ16A-001T13	SMCJ100CA-001	SMDJ24A-001		5.0SMDJ36CA-001T7
SMAJ28A-001T13	SMBJ8.0C-001	SMBJ24-001T13	SMBJ60C-001T13	SMBJ200A-001	SMCJ16CA-001	SMCJ100CA-001T13	SMDJ24A-001T13		5.0SMDJ40A-001T7
SMAJ28CA-001	SMBJ8.0C-001T13	SMBJ24A-001	SMBJ60CA-001	SMBJ200A-001T13	SMCJ16CA-001T13	SMCJ110A-001	SMDJ24CA-001		5.0SMDJ40CA-001T7
SMAJ28CA-001T13	SMBJ8.0CA-001	SMBJ24A-001T13	SMBJ60CA-001T13	SMBJ200C-001	SMCJ17A-001	SMCJ110A-001T13	SMDJ24CA-001T13		5.0SMDJ43A-001T7
SMAJ30A-001	SMBJ8.0CA-001T13	SMBJ24C-001	SMBJ64-001	SMBJ200C-001T13	SMCJ17A-001T13	SMCJ110CA-001	SMDJ26A-001		5.0SMDJ43CA-001T7
SMAJ30A-001T13	SMBJ8.5-001	SMBJ24C-001T13	SMBJ64-001T13	SMBJ200CA-001	SMCJ17CA-001	SMCJ110CA-001T13	SMDJ26A-001T13		5.0SMDJ45A-001T7
SMAJ30CA-001	SMBJ8.5-001T13	SMBJ24CA-001	SMBJ64A-001	SMBJ200CA-001T13	SMCJ17CA-001T13	SMCJ120A-001	SMDJ26CA-001		5.0SMDJ45CA-001T7
SMAJ30CA-001T13	SMBJ8.5A-001	SMBJ24CA-001T13	SMBJ64A-001T13	SMBJ250-001	SMCJ18A-001	SMCJ120A-001T13	SMDJ26CA-001T13		5.0SMDJ48A-001T7
SMAJ33A-001	SMBJ8.5A-001T13	SMBJ26-001	SMBJ64C-001	SMBJ250-001T13	SMCJ18A-001T13	SMCJ120CA-001	SMDJ28A-001		5.0SMDJ51A-001T7
SMAJ33A-001T13	SMBJ8.5C-001	SMBJ26-001T13	SMBJ64C-001T13	SMBJ250A-001	SMCJ18CA-001	SMCJ120CA-001T13	SMDJ28A-001T13		5.0SMDJ54A-001T7
SMAJ33CA-001	SMBJ8.5C-001T13	SMBJ26A-001	SMBJ64CA-001	SMBJ250A-001T13	SMCJ18CA-001T13	SMCJ130A-001	SMDJ28C-001		5.0SMDJ58A-001T7
SMAJ33CA-001T13	SMBJ8.5CA-001	SMBJ26A-001T13	SMBJ64CA-001T13	SMBJ250C-001	SMCJ20A-001	SMCJ130A-001T13	SMDJ28C-001T13		5.0SMDJ60A-001T7
SMAJ36A-001	SMBJ8.5CA-001T13	SMBJ26C-001	SMBJ70-001	SMBJ250C-001T13	SMCJ20A-001T13	SMCJ130CA-001	SMDJ28CA-001		5.0SMDJ64A-001T7
SMAJ36A-001T13	SMBJ9.0-001	SMBJ26C-001T13	SMBJ70-001T13	SMBJ250CA-001	SMCJ20CA-001	SMCJ130CA-001T13	SMDJ28CA-001T13		5.0SMDJ70A-001T7
SMAJ36CA-001	SMBJ9.0-001T13	SMBJ26CA-001	SMBJ70A-001	SMBJ250CA-001T13	SMCJ20CA-001T13	SMCJ150A-001	SMDJ30A-001		5.0SMDJ75A-001T7
SMAJ36CA-001T13	SMBJ9.0A-001	SMBJ26CA-001T13	SMBJ70A-001T13	SMBJ300-001	SMCJ22A-001	SMCJ150A-001T13	SMDJ30A-001T13		5.0SMDJ78A-001T7
SMAJ40A-001	SMBJ9.0A-001T13	SMBJ28-001	SMBJ70C-001	SMBJ300-001T13	SMCJ22A-001T13	SMCJ150CA-001	SMDJ30CA-001		5.0SMDJ85A-001T7
SMAJ40A-001T13	SMBJ9.0C-001	SMBJ28-001T13	SMBJ70C-001T13	SMBJ300A-001	SMCJ22CA-001	SMCJ150CA-001T13	SMDJ30CA-001T13		5.0SMDJ90A-001T7
SMAJ40CA-001	SMBJ9.0C-001T13	SMBJ28A-001	SMBJ70CA-001	SMBJ300A-001T13	SMCJ22CA-001T13	SMCJ160A-001	SMDJ33A-001		5.0SMDJ100A-001T7
SMAJ40CA-001T13	SMBJ9.0CA-001	SMBJ28A-001T13	SMBJ70CA-001T13	SMBJ300C-001	SMCJ24A-001	SMCJ160A-001T13	SMDJ33A-001T13		5.0SMDJ110A-001T7
SMAJ43A-001	SMBJ9.0CA-001T13	SMBJ28C-001	SMBJ75-001	SMBJ300C-001T13	SMCJ24A-001T13	SMCJ160CA-001	SMDJ33CA-001		5.0SMDJ120A-001T7
SMAJ43A-001T13	SMBJ10-001	SMBJ28C-001T13	SMBJ75-001T13	SMBJ300CA-001	SMCJ24CA-001	SMCJ160CA-001T13	SMDJ33CA-001T13		5.0SMDJ120CA-001
SMAJ43CA-001	SMBJ10-001T13	SMBJ28CA-001	SMBJ75A-001	SMBJ300CA-001T13	SMCJ24CA-001T13	SMCJ170A-001	SMDJ36A-001		5.0SMDJ130A-001T7
SMAJ43CA-001T13	SMBJ10A-001	SMBJ28CA-001T13	SMBJ75A-001T13	SMBJ350-001	SMCJ26A-001	SMCJ170A-001T13	SMDJ36A-001T13		5.0SMDJ150A-001T7
SMAJ45A-001	SMBJ10A-001T13	SMBJ30-001	SMBJ75C-001	SMBJ350-001T13	SMCJ26A-001T13	SMCJ170CA-001	SMDJ36CA-001		5.0SMDJ160A-001T7
									5.0SMDJ170A-001T7

-1000		
SMAJ6.0CA-1000	SMCJ6.0A-1000	SMDJ7.5CA-1000
SMAJ11A-1000	SMCJ6.0CA-1000	SMDJ10A-1000
SMAJ11CA-1000	SMCJ6.5A-1000	SMDJ10CA-1000
SMAJ15A-1000	SMCJ6.5CA-1000	SMDJ11A-1000
SMAJ20A-1000	SMCJ10A-1000	SMDJ11CA-1000
SMAJ20CA-1000	SMCJ10CA-1000	SMDJ13A-1000
SMAJ24CA-1000	SMCJ11A-1000	SMDJ13CA-1000
SMAJ43A-1000	SMCJ11CA-1000	SMDJ24A-1000
SMAJ43CA-1000	SMCJ12A-1000	SMDJ24CA-1000
SMAJ48A-1000	SMCJ12CA-1000	SMDJ36A-1000
SMAJ48CA-1000	SMCJ13A-1000	SMDJ36CA-1000
SMAJ60A-1000	SMCJ13CA-1000	SMDJ40A-1000
SMAJ60CA-1000	SMCJ15A-1000	SMDJ40CA-1000
SMAJ70CA-1000	SMCJ15CA-1000	SMDJ43A-1000
SMBJ5.0A-1000	SMCJ24A-1000	SMDJ43CA-1000
SMBJ5.0CA-1000	SMCJ24CA-1000	SMDJ48A-1000
SMBJ6.0A-1000	SMCJ30A-1000	SMDJ63A-1000
SMBJ6.0CA-1000	SMCJ30CA-1000	SMDJ70A-1000
SMBJ9.0A-1000	SMCJ43A-1000	SMDJ75A-1000
SMBJ9.0CA-1000	SMCJ43CA-1000	SMDJ48CA-1000
SMBJ10A-1000	SMCJ48A-1000	SMDJ70CA-1000
SMBJ10CA-1000	SMCJ48CA-1000	SMDJ75CA-1000
SMBJ12A-1000	SMCJ54A-1000	5.0SMDJ12A-1000
SMBJ12CA-1000	SMCJ54CA-1000	5.0SMDJ12CA-1000
SMBJ16A-1000	SMCJ60A-1000	5.0SMDJ40A-1000
SMBJ16CA-1000	SMCJ60CA-1000	5.0SMDJ40CA-1000
SMBJ20A-1000	SMDJ6.0A-1000	5.0SMDJ43A-1000
SMBJ20CA-1000	SMDJ6.0CA-1000	5.0SMDJ43CA-1000
SMBJ36A-1000	SMDJ6.5A-1000	5.0SMDJ45A-1000
SMBJ36CA-1000	SMDJ6.5CA-1000	5.0SMDJ45CA-1000
SMBJ48A-1000	SMDJ7.0A-1000	5.0SMDJ60A-1000
SMBJ48CA-1000	SMDJ7.0CA-1000	5.0SMDJ60CA-1000
SMBJ150CA-1000	SMDJ7.5A-1000	

Littelfuse®

Expertise Applied | Answers Delivered

-HR			-HRA				
SMBJ5.0A-HR	SMCJ5.0A-HR	SMCJ154A-HR	SMBJ5.0A-HRA	SMBJ12CA-HRAT7	SMCJ90CA-HRA	SMCJ78CA-HRAT7	SMDJ78A-HRA
SMBJ5.0CA-HR	SMCJ5.0CA-HR	SMCJ154CA-HR	SMBJ5.0CA-HRA	SMBJ15A-HRAT7	SMCJ100A-HRA	SMCJ85A-HRAT7	SMDJ85A-HRA
SMBJ6.0A-HR	SMCJ6.0A-HR	SMCJ160A-HR	SMBJ6.0A-HRA	SMBJ15CA-HRAT7	SMCJ100CA-HRA	SMCJ85CA-HRAT7	SMDJ90A-HRA
SMBJ6.0CA-HR	SMCJ6.0CA-HR	SMCJ160CA-HR	SMBJ6.0CA-HRA	SMBJ18A-HRAT7	SMCJ110A-HRA	SMCJ90A-HRAT7	SMDJ100A-HRA
SMBJ6.5A-HR	SMCJ6.5A-HR	SMCJ170A-HR	SMBJ6.5A-HRA	SMBJ18CA-HRAT7	SMCJ110CA-HRA	SMCJ90CA-HRAT7	SMDJ110A-HRA
SMBJ6.5CA-HR	SMCJ6.5CA-HR	SMCJ170CA-HR	SMBJ6.5CA-HRA	SMBJ30A-HRAT7	SMCJ120A-HRA	SMCJ100A-HRAT7	SMDJ120A-HRA
SMBJ7.0A-HR	SMCJ7.0A-HR	SMDJ5.0A-HR	SMBJ7.0A-HRA	SMBJ30CA-HRAT7	SMCJ120CA-HRA	SMCJ100CA-HRAT7	SMDJ130A-HRA
SMBJ7.0CA-HR	SMCJ7.0CA-HR	SMDJ5.0CA-HR	SMBJ7.0CA-HRA	SMBJ36A-HRAT7	SMCJ130A-HRA	SMCJ110A-HRAT7	SMDJ150A-HRA
SMBJ7.5A-HR	SMCJ7.5A-HR	SMDJ6.0A-HR	SMBJ7.5A-HRA	SMBJ45A-HRAT7	SMCJ130CA-HRA	SMCJ110CA-HRAT7	SMDJ160A-HRA
SMBJ7.5CA-HR	SMCJ7.5CA-HR	SMDJ6.0CA-HR	SMBJ7.5CA-HRA	SMBJ90CA-HRAT7	SMCJ150A-HRA	SMCJ120A-HRAT7	SMDJ170A-HRA
SMBJ8.0A-HR	SMCJ8.0A-HR	SMDJ6.5A-HR	SMBJ8.0A-HRA	SMBJ6.0A-HRA-B	SMCJ150CA-HRA	SMCJ120CA-HRAT7	SMDJ5.0A-HRAT7
SMBJ8.0CA-HR	SMCJ8.0CA-HR	SMDJ6.5CA-HR	SMBJ8.0CA-HRA	SMCJ5.0A-HRA	SMCJ160A-HRA	SMCJ130A-HRAT7	SMDJ5.0CA-HRAT7
SMBJ8.5A-HR	SMCJ8.5A-HR	SMDJ7.0A-HR	SMBJ8.5A-HRA	SMCJ5.0CA-HRA	SMCJ160CA-HRA	SMCJ130CA-HRAT7	SMDJ6.0A-HRAT7
SMBJ8.5CA-HR	SMCJ8.5CA-HR	SMDJ7.0CA-HR	SMBJ8.5CA-HRA	SMCJ6.0A-HRA	SMCJ170A-HRA	SMCJ150A-HRAT7	SMDJ6.0CA-HRAT7
SMBJ9.0A-HR	SMCJ9.0A-HR	SMDJ7.5A-HR	SMBJ9.0A-HRA	SMCJ6.0CA-HRA	SMCJ170CA-HRA	SMCJ150CA-HRAT7	SMDJ6.5A-HRAT7
SMBJ9.0CA-HR	SMCJ9.0CA-HR	SMDJ7.5CA-HR	SMBJ9.0CA-HRA	SMCJ6.5A-HRA	SMCJ5.0A-HRAT7	SMCJ160A-HRAT7	SMDJ6.5CA-HRAT7
SMBJ10A-HR	SMCJ10A-HR	SMDJ8.0A-HR	SMBJ10A-HRA	SMCJ6.5CA-HRA	SMCJ5.0CA-HRAT7	SMCJ160CA-HRAT7	SMDJ7.0A-HRAT7
SMBJ10CA-HR	SMCJ10CA-HR	SMDJ8.0CA-HR	SMBJ10CA-HRA	SMCJ7.0A-HRA	SMCJ6.0A-HRAT7	SMCJ170A-HRAT7	SMDJ7.0CA-HRAT7
SMBJ11A-HR	SMCJ11A-HR	SMDJ8.5A-HR	SMBJ11A-HRA	SMCJ7.0CA-HRA	SMCJ6.0CA-HRAT7	SMCJ170CA-HRAT7	SMDJ7.5A-HRAT7
SMBJ11CA-HR	SMCJ11CA-HR	SMDJ8.5CA-HR	SMBJ11CA-HRA	SMCJ7.5A-HRA	SMCJ6.5A-HRAT7	SMDJ5.0A-HRA	SMDJ7.5CA-HRAT7
SMBJ12A-HR	SMCJ12A-HR	SMDJ9.0A-HR	SMBJ12A-HRA	SMCJ7.5CA-HRA	SMCJ6.5CA-HRAT7	SMDJ5.0CA-HRA	SMDJ8.0A-HRAT7
SMBJ12CA-HR	SMCJ12CA-HR	SMDJ9.0CA-HR	SMBJ12CA-HRA	SMCJ8.0A-HRA	SMCJ7.0A-HRAT7	SMDJ6.0A-HRA	SMDJ8.0CA-HRAT7
SMBJ13A-HR	SMCJ13A-HR	SMDJ10A-HR	SMBJ13A-HRA	SMCJ8.0CA-HRA	SMCJ7.0CA-HRAT7	SMDJ6.0CA-HRA	SMDJ8.5A-HRAT7
SMBJ13CA-HR	SMCJ13CA-HR	SMDJ10CA-HR	SMBJ13CA-HRA	SMCJ8.5A-HRA	SMCJ7.5A-HRAT7	SMDJ6.5A-HRA	SMDJ8.5CA-HRAT7
SMBJ14A-HR	SMCJ14A-HR	SMDJ11A-HR	SMBJ14A-HRA	SMCJ8.5CA-HRA	SMCJ7.5CA-HRAT7	SMDJ6.5CA-HRA	SMDJ9.0A-HRAT7
SMBJ14CA-HR	SMCJ14CA-HR	SMDJ11CA-HR	SMBJ14CA-HRA	SMCJ9.0A-HRA	SMCJ8.0A-HRAT7	SMDJ7.0A-HRA	SMDJ9.0CA-HRAT7
SMBJ15A-HR	SMCJ15A-HR	SMDJ12A-HR	SMBJ15A-HRA	SMCJ9.0CA-HRA	SMCJ8.0CA-HRAT7	SMDJ7.0CA-HRA	SMDJ10A-HRAT7
SMBJ15CA-HR	SMCJ15CA-HR	SMDJ12CA-HR	SMBJ15CA-HRA	SMCJ10A-HRA	SMCJ8.5A-HRAT7	SMDJ7.5A-HRA	SMDJ10CA-HRAT7
SMBJ16A-HR	SMCJ16A-HR	SMDJ13A-HR	SMBJ16A-HRA	SMCJ10CA-HRA	SMCJ8.5CA-HRAT7	SMDJ7.5CA-HRA	SMDJ11A-HRAT7
SMBJ16CA-HR	SMCJ16CA-HR	SMDJ13CA-HR	SMBJ16CA-HRA	SMCJ11A-HRA	SMCJ9.0A-HRAT7	SMDJ8.0A-HRA	SMDJ11CA-HRAT7
SMBJ17A-HR	SMCJ17A-HR	SMDJ14A-HR	SMBJ17A-HRA	SMCJ11CA-HRA	SMCJ9.0CA-HRAT7	SMDJ8.0CA-HRA	SMDJ12A-HRAT7
SMBJ17CA-HR	SMCJ17CA-HR	SMDJ14CA-HR	SMBJ17CA-HRA	SMCJ12A-HRA	SMCJ10A-HRAT7	SMDJ8.5A-HRA	SMDJ12CA-HRAT7
SMBJ18A-HR	SMCJ18A-HR	SMDJ15A-HR	SMBJ18A-HRA	SMCJ12CA-HRA	SMCJ10CA-HRAT7	SMDJ8.5CA-HRA	SMDJ13A-HRAT7
SMBJ18CA-HR	SMCJ18CA-HR	SMDJ15CA-HR	SMBJ18CA-HRA	SMCJ13A-HRA	SMCJ11A-HRAT7	SMDJ9.0A-HRA	SMDJ13CA-HRAT7
SMBJ20A-HR	SMCJ20A-HR	SMDJ16A-HR	SMBJ20A-HRA	SMCJ13CA-HRA	SMCJ11CA-HRAT7	SMDJ9.0CA-HRA	SMDJ14A-HRAT7
SMBJ20CA-HR	SMCJ20CA-HR	SMDJ16CA-HR	SMBJ20CA-HRA	SMCJ14A-HRA	SMCJ12A-HRAT7	SMDJ10A-HRA	SMDJ14CA-HRAT7
SMBJ22A-HR	SMCJ22A-HR	SMDJ17A-HR	SMBJ22A-HRA	SMCJ14CA-HRA	SMCJ12CA-HRAT7	SMDJ10CA-HRA	SMDJ15A-HRAT7
SMBJ22CA-HR	SMCJ22CA-HR	SMDJ17CA-HR	SMBJ22CA-HRA	SMCJ15A-HRA	SMCJ13A-HRAT7	SMDJ11A-HRA	SMDJ15CA-HRAT7
SMBJ24A-HR	SMCJ24A-HR	SMDJ18A-HR	SMBJ24A-HRA	SMCJ15CA-HRA	SMCJ13CA-HRAT7	SMDJ11CA-HRA	SMDJ16A-HRAT7
SMBJ24CA-HR	SMCJ24CA-HR	SMDJ18CA-HR	SMBJ24CA-HRA	SMCJ16A-HRA	SMCJ14A-HRAT7	SMDJ12A-HRA	SMDJ16CA-HRAT7
SMBJ26A-HR	SMCJ26A-HR	SMDJ20A-HR	SMBJ26A-HRA	SMCJ16CA-HRA	SMCJ14CA-HRAT7	SMDJ12CA-HRA	SMDJ17A-HRAT7
SMBJ26CA-HR	SMCJ26CA-HR	SMDJ20CA-HR	SMBJ26CA-HRA	SMCJ17A-HRA	SMCJ15A-HRAT7	SMDJ13A-HRA	SMDJ17CA-HRAT7
SMBJ28A-HR	SMCJ28A-HR	SMDJ22A-HR	SMBJ28A-HRA	SMCJ17CA-HRA	SMCJ15CA-HRAT7	SMDJ13CA-HRA	SMDJ18A-HRAT7
SMBJ28CA-HR	SMCJ28CA-HR	SMDJ22CA-HR	SMBJ28CA-HRA	SMCJ18A-HRA	SMCJ16A-HRAT7	SMDJ14A-HRA	SMDJ18CA-HRAT7
SMBJ30A-HR	SMCJ30A-HR	SMDJ24A-HR	SMBJ30A-HRA	SMCJ18CA-HRA	SMCJ16CA-HRAT7	SMDJ14CA-HRA	SMDJ20A-HRAT7
SMBJ30CA-HR	SMCJ30CA-HR	SMDJ24CA-HR	SMBJ30CA-HRA	SMCJ20A-HRA	SMCJ17A-HRAT7	SMDJ15A-HRA	SMDJ20CA-HRAT7
SMBJ33A-HR	SMCJ33A-HR	SMDJ26A-HR	SMBJ33A-HRA	SMCJ20CA-HRA	SMCJ17CA-HRAT7	SMDJ15CA-HRA	SMDJ22A-HRAT7
SMBJ33CA-HR	SMCJ33CA-HR	SMDJ26CA-HR	SMBJ33CA-HRA	SMCJ22A-HRA	SMCJ18A-HRAT7	SMDJ16A-HRA	SMDJ22CA-HRAT7
SMBJ36A-HR	SMCJ36A-HR	SMDJ28A-HR	SMBJ36A-HRA	SMCJ22CA-HRA	SMCJ18CA-HRAT7	SMDJ16CA-HRA	SMDJ24A-HRAT7
SMBJ36CA-HR	SMCJ36CA-HR	SMDJ28CA-HR	SMBJ36CA-HRA	SMCJ24A-HRA	SMCJ20A-HRAT7	SMDJ17A-HRA	SMDJ24CA-HRAT7
SMBJ40A-HR	SMCJ40A-HR	SMDJ30A-HR	SMBJ40A-HRA	SMCJ24CA-HRA	SMCJ20CA-HRAT7	SMDJ17CA-HRA	SMDJ26A-HRAT7
SMBJ40CA-HR	SMCJ40CA-HR	SMDJ30CA-HR	SMBJ40CA-HRA	SMCJ26A-HRA	SMCJ22A-HRAT7	SMDJ18A-HRA	SMDJ26CA-HRAT7
SMBJ43A-HR	SMCJ43A-HR	SMDJ33A-HR	SMBJ43A-HRA	SMCJ26CA-HRA	SMCJ22CA-HRAT7	SMDJ18CA-HRA	SMDJ28A-HRAT7
SMBJ43CA-HR	SMCJ43CA-HR	SMDJ33CA-HR	SMBJ43CA-HRA	SMCJ28A-HRA	SMCJ24A-HRAT7	SMDJ20A-HRA	SMDJ28CA-HRAT7
SMBJ45A-HR	SMCJ45A-HR	SMDJ36A-HR	SMBJ45A-HRA	SMCJ28CA-HRA	SMCJ24CA-HRAT7	SMDJ20CA-HRA	SMDJ30A-HRAT7
SMBJ45CA-HR	SMCJ45CA-HR	SMDJ36CA-HR	SMBJ45CA-HRA	SMCJ30A-HRA	SMCJ26A-HRAT7	SMDJ22A-HRA	SMDJ30CA-HRAT7
SMBJ48A-HR	SMCJ48A-HR	SMDJ40A-HR	SMBJ48A-HRA	SMCJ30CA-HRA	SMCJ26CA-HRAT7	SMDJ22CA-HRA	SMDJ33A-HRAT7
SMBJ48CA-HR	SMCJ48CA-HR	SMDJ40CA-HR	SMBJ48CA-HRA	SMCJ33A-HRA	SMCJ28A-HRAT7	SMDJ24A-HRA	SMDJ33CA-HRAT7
SMBJ51A-HR	SMCJ51A-HR	SMDJ43A-HR	SMBJ51A-HRA	SMCJ33CA-HRA	SMCJ28CA-HRAT7	SMDJ24CA-HRA	SMDJ36A-HRAT7
SMBJ51CA-HR	SMCJ51CA-HR	SMDJ43CA-HR	SMBJ51CA-HRA	SMCJ36A-HRA	SMCJ30A-HRAT7	SMDJ26A-HRA	SMDJ36CA-HRAT7
SMBJ54A-HR	SMCJ54A-HR	SMDJ45A-HR	SMBJ54A-HRA	SMCJ36CA-HRA	SMCJ30CA-HRAT7	SMDJ26CA-HRA	SMDJ40A-HRAT7
SMBJ54CA-HR	SMCJ54CA-HR	SMDJ45CA-HR	SMBJ54CA-HRA	SMCJ40A-HRA	SMCJ33A-HRAT7	SMDJ28A-HRA	SMDJ40CA-HRAT7
SMBJ58A-HR	SMCJ58A-HR	SMDJ48A-HR	SMBJ58A-HRA	SMCJ40CA-HRA	SMCJ33CA-HRAT7	SMDJ28CA-HRA	SMDJ43A-HRAT7
SMBJ58CA-HR	SMCJ58CA-HR	SMDJ48CA-HR	SMBJ58CA-HRA	SMCJ43A-HRA	SMCJ36A-HRAT7	SMDJ30A-HRA	SMDJ43CA-HRAT7
SMBJ60A-HR	SMCJ60A-HR	SMDJ51A-HR	SMBJ60A-HRA	SMCJ43CA-HRA	SMCJ36CA-HRAT7	SMDJ30CA-HRA	SMDJ45A-HRAT7
SMBJ60CA-HR	SMCJ60CA-HR	SMDJ51CA-HR	SMBJ60CA-HRA	SMCJ45A-HRA	SMCJ40A-HRAT7	SMDJ33A-HRA	SMDJ45CA-HRAT7
SMBJ64A-HR	SMCJ64A-HR	SMDJ54A-HR	SMBJ64A-HRA	SMCJ45CA-HRA	SMCJ40CA-HRAT7	SMDJ33CA-HRA	SMDJ48A-HRAT7
SMBJ64CA-HR	SMCJ64CA-HR	SMDJ54CA-HR	SMBJ64CA-HRA	SMCJ48A-HRA	SMCJ43A-HRAT7	SMDJ36A-HRA	SMDJ48CA-HRAT7
SMBJ70A-HR	SMCJ70A-HR	SMDJ58A-HR	SMBJ70A-HRA	SMCJ48CA-HRA	SMCJ43CA-HRAT7	SMDJ36CA-HRA	SMDJ51A-HRAT7
SMBJ70CA-HR	SMCJ70CA-HR	SMDJ58CA-HR	SMBJ70CA-HRA	SMCJ51A-HRA	SMCJ45A-HRAT7	SMDJ40A-HRA	SMDJ51CA-HRAT7
SMBJ75A-HR	SMCJ75A-HR	SMDJ60A-HR	SMBJ75A-HRA	SMCJ51CA-HRA	SMCJ45CA-HRAT7	SMDJ40CA-HRA	SMDJ54A-HRAT7
SMBJ75CA-HR	SMCJ75CA-HR	SMDJ60CA-HR	SMBJ75CA-HRA	SMCJ54A-HRA	SMCJ48A-HRAT7	SMDJ43A-HRA	SMDJ54CA-HRAT7
SMBJ78A-HR	SMCJ78A-HR	SMDJ64A-HR	SMBJ78A-HRA	SMCJ54CA-HRA	SMCJ48CA-HRAT7	SMDJ43CA-HRA	SMDJ58A-HRAT7
SMBJ78CA-HR	SMCJ78CA-HR	SMDJ70A-HR	SMBJ78CA-HRA	SMCJ58A-HRA	SMCJ51A-HRAT7	SMDJ45A-HRA	SMDJ60A-HRAT7
SMBJ85A-HR	SMCJ85A-HR	SMDJ75A-HR	SMBJ85A-HRA	SMCJ58CA-HRA	SMCJ51CA-HRAT7	SMDJ45CA-HRA	SMDJ64A-HRAT7
SMBJ85CA-HR	SMCJ85CA-HR	SMDJ78A-HR	SMBJ85CA-HRA	SMCJ60A-HRA	SMCJ54A-HRAT7	SMDJ48A-HRA	SMDJ70A-HRAT7
SMBJ90CA-HR	SMCJ90A-HR	SMDJ85A-HR	SMBJ90CA-HRA	SMCJ60CA-HRA	SMCJ54CA-HRAT7	SMDJ48CA-HRA	SMDJ75A-HRAT7
SMBJ100CA-HR	SMCJ90CA-HR	SMDJ90A-HR	SMBJ100CA-HRA	SMCJ64A-HRA	SMCJ58A-HRAT7	SMDJ51A-HRA	SMDJ78A-HRAT7
SMBJ110CA-HR	SMCJ100A-HR	SMDJ100A-HR	SMBJ110CA-HRA	SMCJ64CA-HRA	SMCJ58CA-HRAT7	SMDJ51CA-HRA	SMDJ85A-HRAT7
SMBJ120CA-HR	SMCJ100CA-HR	SMDJ110A-HR	SMBJ120CA-HRA	SMCJ70A-HRA	SMCJ60A-HRAT7	SMDJ54A-HRA	SMDJ90A-HRAT7
SMBJ130CA-HR	SMCJ110A-HR	SMDJ120A-HR	SMBJ130CA-HRA	SMCJ70CA-HRA	SMCJ60CA-HRAT7	SMDJ54CA-HRA	SMDJ100A-HRAT7
SMBJ150CA-HR	SMCJ110CA-HR	SMDJ130A-HR	SMBJ150CA-HRA	SMCJ75A-HRA	SMCJ64A-HRAT7	SMDJ58A-HRA	SMDJ110A-HRAT7
SMBJ160CA-HR	SMCJ120A-HR	SMDJ150A-HR	SMBJ160CA-HRA	SMCJ75CA-HRA	SMCJ64CA-HRAT7	SMDJ58CA-HRA	SMDJ120A-HRAT7
SMBJ170CA-HR	SMCJ120CA-HR	SMDJ160A-HR	SMBJ170CA-HRA	SMCJ78A-HRA	SMCJ70A-HRAT7	SMDJ60A-HRA	SMDJ130A-HRAT7
	SMCJ130A-HR	SMDJ170A-HR	SMBJ6.0A-HRAT7	SMCJ78CA-HRA	SMCJ70CA-HRAT7	SMDJ60CA-HRA	SMDJ150A-HRAT7
	SMCJ130CA-HR		SMBJ6.0CA-HRAT7	SMCJ85A-HRA	SMCJ75A-HRAT7	SMDJ64A-HRA	SMDJ160A-HRAT7
	SMCJ150A-HR		SMBJ9.0A-HRAT7	SMCJ85CA-HRA	SMCJ75CA-HRAT7	SMDJ70A-HRA	SMDJ170A-HRAT7
	SMCJ150CA-HR		SMBJ9.0CA-HRAT7	SMCJ90A-HRA	SMCJ78A-HRAT7	SMDJ75A-HRA	SMDJ12CA-HRA-B
							SMDJ[illegible]-HRA-B