

Process Change Notification

This is to inform you that a design and/or process change will be implemented to the affected product(s) and this notification is for your information and concurrence. This change is planned to take effect in 90 calendar days from the date of this notification.

Please work with your local Taiwan Semiconductor Sales Representative to manage your inventory of unchanged product if your evaluation of this change will require more than 90 calendar days.

Please contact your local Taiwan Semiconductor Field Quality Service or Customer Quality Engineer within 45 days of receipt of this notification if you require any additional data or samples.

PCN No: PCN21004

Title: TSC YEW SMA/B/C Manual to Automated (Matrix) Line Transfer Qual

Issue Date: 2021/2/5

If you have any questions concerning this change, please contact:

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PCN Type: Process Change, Encapsulation Material Change, Packing Material Change, Unit Marking Change and Datasheet Revision

Effectivity:

Expected 1st device shipment date: 2021/5/6

Last order date for manual parts: 2021/2/20

Last shipment date for manual parts: 2021/7/30

**Product Category (Description):**

All the devices in SMA, SMB and SMC packages which are assembled and tested in Taiwan Semiconductor Yangxin facility (YEW).

Description of Change:

Taiwan Semiconductor Yangxin facility (YEW) will now discontinue manufacturing all the SMA, SMB and SMC devices using manual line as the material supplier for leadframe will stop production. The last time order can only be placed until 20th of February 2021, but production support will be limited to the available remaining supplier material inventory.

All these devices are already processed in high volume production using the automated (matrix) line. This change will improve delivery support and service to all TSC customers.

This is the final notification summarizing all the previous PCNs released related to matrix line conversion as per table below.

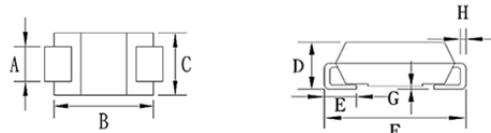
PCN No.	Title
PCN17007-x	A new fully-automated SMA backend assembly line increase
PCN17008-x	A new fully-automated SMA backend assembly line transfer
PCN17009-x	A new fully-automated SMB backend assembly line transfer
PCN17014-x	A new fully-automated SMB backend assembly line increase
PCN17026-x	A new fully-automated SMC backend assembly line increase for Automotive
PCN17027-x	A new fully-automated SMC backend assembly line increase for Consumer
PCN20005	SMDJxx & S15xC Series transfer to fully-automated backend assembly line
PCN20006	SMA,SMB,SMC TVS<10V series of consumer products transfer to fully-automated backend assembly line

This notification also includes the implementation of halogen-free (green) epoxy molding for all SMA, SMB and SMC devices to be compliant to global environmental initiatives in line with IEC 61249-2-21.

Accordingly, the packing material will be standardized to 13inch black plastic reel. In line with this change, the product datasheet will also be revised to simplify the ordering code.

See list of affected devices.

1. Package Outline Comparison SMA



DO-214AC (SMA)	JEDEC		TSC Dsheet		Folded/Manual		Automated (Matrix)		Remarks
	Min	Max	Min	Max	Min	Max	Min	Max	
A	1.250	1.650	1.270	1.580	1.380	1.580	1.300	1.500	Meet
B	3.950	4.600	4.060	4.600	4.450	4.550	4.145	4.195	Meet
C	2.250	2.950	2.290	2.830	2.500	2.800	2.575	2.625	Meet
D	1.950	2.900	1.990	2.500	2.250	2.450	2.000	2.200	Meet
E	0.750	1.600	0.900	1.410	0.900	1.400	1.040	1.240	Meet
F	4.800	5.600	4.950	5.330	5.030	5.230	4.980	5.180	Meet
G	0.050	0.200	0.100	0.200	0.100	0.200	0.100	0.200	Meet
H	0.150	0.410	0.150	0.310	0.150	0.250	0.190	0.210	Meet

2. Package Outline Comparison SMB

DO-214AA (SMB)	JEDEC		TSC Dsheet		Manual		Automated (Matrix)		Remarks
	Min	Max	Min	Max	Min	Max	Min	Max	
A	1.950	2.200	1.950	2.200	1.950	2.050	1.950	2.100	Meet
B	4.050	4.600	4.050	4.600	4.450	4.550	4.375	4.425	Meet
C	3.300	3.950	3.300	3.895	3.500	3.700	3.475	3.525	Meet
D	1.950	2.650	1.950	2.650	2.250	2.450	2.000	2.200	Meet
E	0.750	1.600	0.750	1.600	0.950	1.350	1.040	1.240	Meet
F	5.100	5.600	5.100	5.600	5.100	5.200	5.200	5.400	Meet
G	0.050	0.200	0.050	0.200	0.100	0.200	0.100	0.200	Meet
H	0.050	0.410	0.150	0.350	0.180	0.220	0.190	0.210	Meet

3. Package Outline Comparison SMC

DO-214AB (SMC)	JEDEC		TSC Dsheet		Manual		Automated (Matrix)		Remarks
	Min	Max	Min	Max	Min	Max	Min	Max	
A	2.900	3.200	2.900	3.200	2.900	3.040	2.900	3.200	Meet
B	6.600	7.150	6.600	7.110	6.810	6.910	6.775	6.825	Meet
C	5.550	6.250	5.590	6.220	5.800	5.900	5.725	5.775	Meet
D	1.950	2.650	2.000	2.620	2.330	2.490	2.000	2.200	Meet
E	0.750	1.600	1.000	1.600	1.280	1.520	1.040	1.240	Meet
F	7.750	8.150	7.750	8.130	7.850	8.050	7.800	8.000	Meet
G	0.050	0.200	0.100	0.200	0.100	0.200	0.100	0.200	Meet
H	0.050	0.410	0.150	0.310	0.200	0.300	0.190	0.210	Meet

Conclusion: YEW package outline dimension is within TSC standard outline and JEDEC and will not affect the TSC datasheet POD and recommended landing pattern.



4. Bill of Materials Comparison

SMA/SMB/SMC

Material	Manual/Folded	Automated (Matrix)	Remarks
Wafer	No change of wafer sources		
Leadframe/Clip	Copper Alloy	Copper Alloy	Same material
Die Attach Solder	Pb92.5/Sn5/Ag2.5	Pb92.5/Sn5/Ag2.5	Same composition
Molding Compound	EME-1200 / EME-1100/ EME-6600 / EME-6650 / EK-1800G / EME-E110G	EME-E500	Green compound
Lead Plating	Matte Sn	Matte Sn	Same composition
Carrier Tape	Conductive	Conductive	No difference
Reel Size/ Type/ Color	13 / 7 inch Plastic / Blue & White	13 inch Plastic / Black	No potential risk in color differences

Remarks: YEW automated line will be fully using green compound to be compliant to global environmental standards. Reel size will be in 13inch reel for standardization.

5. Unit Marking

Package	From	To	Remarks
SMA/B/C (Matrix)			The marking will adapt the unit marking on manual parts without square on the date code.

6. Product Datasheet Revisions

Package	From	To
SMA/SMB/SMC	Non Green Ordering Information (with Packing Code) 13/ 7 inch Plastic & Paper Reel	Green Ordering Information (without Packing Code) 13 inch Size Plastic Reel
SMA/SMB/SMC (TVS Products Only)	None	Add note: Meets ISO 7637-2 (Pulse 1/2a/3a/3b)

Identification and Traceability: Green Compound

Item	Identification	Remarks
Package Marking	GYWF	G halogen free compound

Qualification/Reliability Result

A. Device/Package Qualification(according AEC-Q101-D)

Item	Test Condition	Reference Standard	Sample Size	Result
External Visual	Per TSC spec and Subcon Spec.	JESD22-B101	453*3	Pass
Parameter Verification	Electrical characterization @25°C	TSC specification	25*3	Pass
HTRB (High Temperature Reverse Bias)	Bias=100% or 80% Rated VR /1008hrs	MIL-STD-750-1 M1038	77*3	Pass
Temp. Cycling	-55°C/ 15 min to 150°C/ 15 min + Delam check (or hot test) + DPA	JESD22-A104	77*3	Pass
Autoclave (A.C)	Ta=121±2°C 15Psig(1.057kgf/cm ²), RH=100%/96hrs	JESD22-A102	77*3	Pass
HAST (Highly Accelerated Stress Test)	Ta: 130±2°C, R.H: 85±5% & Bias=100% Rated VR (if VR>42V, Bias=42V)/96hrs	JESD22-A110	77*3	Pass
ESD (AEC)	HBM: (C=100pf R:1500Ω)/6 Pulses	AEC-Q101-001 JS-001	30*1	Pass
ESD (AEC)	CDM: (Field induced charge)/6 Pulses	AEC-Q101-005 JS-002	30*1	Pass
DPA (Destructive Physical Analysis)	Per AEC-Q101	AEC-Q101-004 Section 4	2*1	Pass
PD (Physical Dimension)	Cpk > 1.67	JESD22 B-100	30*1	Pass
SD (Solderability)	Solderability test temperature: 245°C ± 5°C (Pb-free)	J-STD-002 JESD22B102 AEC-Q005	10*1	Pass
TR (Thermal Resistance)	Per TSC SPEC.	JESD24-3, 24-4, 24-6 as appropriate	10*1 or 5*1	Pass
DS (Die Shear)	AEC: Per TSC SPEC. or Supplier SPEC, Cpk > 1.67 or 1.33	MIL-STD-750 Method 2017	5*1	Pass

Conclusion: YEW automated (matrix) line has no difference on the product quality and reliability. The qualification passed the product requirement.

Effect of Change:

No impact in product specification, functionality, quality and reliability. Implementing this change will guarantee Taiwan Semiconductor commitment on environmental protection and customer service through documenting changes in the datasheet.

List of Affected Devices: Datasheet part numbers

Note: <10V TVS devices change to automated process will only be applied for Non-Automotive grade parts.

SMA/B/C Devices

Package	Part number	Package	Part number	Package	Part number
SMA	1PGSMA110Z	SMB	1KSMB100CA	SMB	SMBJ70CA
SMA	1PGSMA120Z	SMB	1KSMB10A	SMB	SMBJ75
SMA	1PGSMA130Z	SMB	1KSMB10CA	SMB	SMBJ75A
SMA	1PGSMA150Z	SMB	1KSMB11A	SMB	SMBJ75C
SMA	1PGSMA160Z	SMB	1KSMB11CA	SMB	SMBJ75CA
SMA	1PGSMA180Z	SMB	1KSMB12A	SMB	SMBJ78
SMA	1PGSMA200Z	SMB	1KSMB12CA	SMB	SMBJ78A
SMA	1PGSMA4740	SMB	1KSMB13A	SMB	SMBJ78C
SMA	1PGSMA4741	SMB	1KSMB13CA	SMB	SMBJ78CA
SMA	1PGSMA4742	SMB	1KSMB15A	SMB	SMBJ8.0
SMA	1PGSMA4743	SMB	1KSMB15CA	SMB	SMBJ8.0A
SMA	1PGSMA4744	SMB	1KSMB16A	SMB	SMBJ8.0C
SMA	1PGSMA4745	SMB	1KSMB16CA	SMB	SMBJ8.0CA
SMA	1PGSMA4746	SMB	1KSMB18A	SMB	SMBJ8.5
SMA	1PGSMA4747	SMB	1KSMB18CA	SMB	SMBJ8.5A
SMA	1PGSMA4748	SMB	1KSMB20A	SMB	SMBJ8.5C
SMA	1PGSMA4749	SMB	1KSMB20CA	SMB	SMBJ8.5CA
SMA	1PGSMA4750	SMB	1KSMB22A	SMB	SMBJ85
SMA	1PGSMA4751	SMB	1KSMB22CA	SMB	SMBJ85A
SMA	1PGSMA4752	SMB	1KSMB24A	SMB	SMBJ85C
SMA	1PGSMA4753	SMB	1KSMB24CA	SMB	SMBJ85CA
SMA	1PGSMA4754	SMB	1KSMB27A	SMB	SMBJ9.0
SMA	1PGSMA4755	SMB	1KSMB27CA	SMB	SMBJ9.0A
SMA	1PGSMA4756	SMB	1KSMB30A	SMB	SMBJ9.0C
SMA	1PGSMA4757	SMB	1KSMB30CA	SMB	SMBJ9.0CA
SMA	1PGSMA4758	SMB	1KSMB33A	SMB	SMBJ90
SMA	1PGSMA4759	SMB	1KSMB33CA	SMB	SMBJ90A
SMA	1PGSMA4760	SMB	1KSMB36A	SMB	SMBJ90C
SMA	1PGSMA4761	SMB	1KSMB36CA	SMB	SMBJ90CA

SMA	1PGSMA4762	SMB	1KSMB39A	SMB	SS210
SMA	1PGSMA4763	SMB	1KSMB39CA	SMB	SS215
SMA	1PGSMA4764	SMB	1KSMB43A	SMB	SS22
SMA	1SMA110Z	SMB	1KSMB43CA	SMB	SS23
SMA	1SMA120Z	SMB	1KSMB47A	SMB	SS24
SMA	1SMA130Z	SMB	1KSMB47CA	SMB	SS25
SMA	1SMA150Z	SMB	1KSMB51A	SMB	SS26
SMA	1SMA160Z	SMB	1KSMB51CA	SMB	SS29
SMA	1SMA180Z	SMB	1KSMB56A	SMB	SSB44
SMA	1SMA200Z	SMB	1KSMB56CA	SMB	SSH210
SMA	1SMA4737	SMB	1KSMB62A	SMB	SSL22
SMA	1SMA4738	SMB	1KSMB62CA	SMB	SSL23
SMA	1SMA4739	SMB	1KSMB68A	SMB	SSL24
SMA	1SMA4740	SMB	1KSMB68CA	SMB	TSD2G
SMA	1SMA4741	SMB	1KSMB75A	SMC	TSD3G
SMA	1SMA4742	SMB	1KSMB75CA	SMC	1.5SMC10
SMA	1SMA4743	SMB	1KSMB82A	SMC	1.5SMC100
SMA	1SMA4744	SMB	1KSMB82CA	SMC	1.5SMC100A
SMA	1SMA4745	SMB	1KSMB91A	SMC	1.5SMC100C
SMA	1SMA4746	SMB	1KSMB91CA	SMC	1.5SMC100CA
SMA	1SMA4747	SMB	1PGSMB5926	SMC	1.5SMC10A
SMA	1SMA4748	SMB	1PGSMB5927	SMC	1.5SMC10C
SMA	1SMA4749	SMB	1PGSMB5928	SMC	1.5SMC10CA
SMA	1SMA4750	SMB	1PGSMB5929	SMC	1.5SMC11
SMA	1SMA4751	SMB	1PGSMB5930	SMC	1.5SMC110
SMA	1SMA4752	SMB	1PGSMB5931	SMC	1.5SMC110A
SMA	1SMA4753	SMB	1PGSMB5932	SMC	1.5SMC110C
SMA	1SMA4754	SMB	1PGSMB5933	SMC	1.5SMC110CA
SMA	1SMA4755	SMB	1PGSMB5934	SMC	1.5SMC11A
SMA	1SMA4756	SMB	1PGSMB5935	SMC	1.5SMC11C
SMA	1SMA4757	SMB	1PGSMB5936	SMC	1.5SMC11CA
SMA	1SMA4758	SMB	1PGSMB5937	SMC	1.5SMC12
SMA	1SMA4759	SMB	1PGSMB5938	SMC	1.5SMC120
SMA	1SMA4760	SMB	1PGSMB5939	SMC	1.5SMC120A
SMA	1SMA4761	SMB	1PGSMB5940	SMC	1.5SMC120C
SMA	1SMA4762	SMB	1PGSMB5941	SMC	1.5SMC120CA
SMA	1SMA4763	SMB	1PGSMB5942	SMC	1.5SMC12A
SMA	1SMA4764	SMB	1PGSMB5943	SMC	1.5SMC12C
SMA	1SMA5926	SMB	1PGSMB5944	SMC	1.5SMC12CA
SMA	1SMA5927	SMB	1PGSMB5945	SMC	1.5SMC13
SMA	1SMA5928	SMB	1PGSMB5946	SMC	1.5SMC130
SMA	1SMA5929	SMB	1PGSMB5947	SMC	1.5SMC130A
SMA	1SMA5930	SMB	1PGSMB5948	SMC	1.5SMC130C
SMA	1SMA5931	SMB	1PGSMB5949	SMC	1.5SMC130CA
SMA	1SMA5932	SMB	1PGSMB5950	SMC	1.5SMC13A
SMA	1SMA5933	SMB	1PGSMB5951	SMC	1.5SMC13C

SMA	1SMA5934	SMB	1PGSMB5952	SMC	1.5SMC13CA
SMA	1SMA5935	SMB	1PGSMB5953	SMC	1.5SMC15
SMA	1SMA5936	SMB	1PGSMB5954	SMC	1.5SMC150
SMA	1SMA5937	SMB	1PGSMB5955	SMC	1.5SMC150A
SMA	1SMA5938	SMB	1PGSMB5956	SMC	1.5SMC150C
SMA	1SMA5939	SMB	1SMB5926	SMC	1.5SMC150CA
SMA	1SMA5940	SMB	1SMB5927	SMC	1.5SMC15A
SMA	1SMA5941	SMB	1SMB5928	SMC	1.5SMC15C
SMA	1SMA5942	SMB	1SMB5929	SMC	1.5SMC15CA
SMA	1SMA5943	SMB	1SMB5930	SMC	1.5SMC16
SMA	1SMA5944	SMB	1SMB5931	SMC	1.5SMC160
SMA	1SMA5945	SMB	1SMB5932	SMC	1.5SMC160A
SMA	1SMA5946	SMB	1SMB5933	SMC	1.5SMC160C
SMA	1SMA5947	SMB	1SMB5934	SMC	1.5SMC160CA
SMA	1SMA5948	SMB	1SMB5935	SMC	1.5SMC16A
SMA	1SMA5949	SMB	1SMB5936	SMC	1.5SMC16C
SMA	1SMA5950	SMB	1SMB5937	SMC	1.5SMC16CA
SMA	1SMA5951	SMB	1SMB5938	SMC	1.5SMC170
SMA	1SMA5952	SMB	1SMB5939	SMC	1.5SMC170A
SMA	1SMA5953	SMB	1SMB5940	SMC	1.5SMC170C
SMA	1SMA5954	SMB	1SMB5941	SMC	1.5SMC170CA
SMA	1SMA5955	SMB	1SMB5942	SMC	1.5SMC18
SMA	1SMA5956	SMB	1SMB5943	SMC	1.5SMC180
SMA	BYG20D	SMB	1SMB5944	SMC	1.5SMC180A
SMA	BYG20G	SMB	1SMB5945	SMC	1.5SMC180C
SMA	BYG20J	SMB	1SMB5946	SMC	1.5SMC180CA
SMA	BYG21M	SMB	1SMB5947	SMC	1.5SMC18A
SMA	BYG23M	SMB	1SMB5948	SMC	1.5SMC18C
SMA	ES1A	SMB	1SMB5949	SMC	1.5SMC18CA
SMA	ES1B	SMB	1SMB5950	SMC	1.5SMC20
SMA	ES1C	SMB	1SMB5951	SMC	1.5SMC200
SMA	ES1D	SMB	1SMB5952	SMC	1.5SMC200A
SMA	ES1DV	SMB	1SMB5953	SMC	1.5SMC200C
SMA	ES1F	SMB	1SMB5954	SMC	1.5SMC200CA
SMA	ES1G	SMB	1SMB5955	SMC	1.5SMC20A
SMA	ES1H	SMB	1SMB5956	SMC	1.5SMC20C
SMA	ES1J	SMB	ES2A	SMC	1.5SMC20CA
SMA	ES1LD	SMB	ES2B	SMC	1.5SMC22
SMA	ES1LG	SMB	ES2C	SMC	1.5SMC22A
SMA	ES1LJ	SMB	ES2D	SMC	1.5SMC22C
SMA	ES2AA	SMB	ES2DV	SMC	1.5SMC22CA
SMA	ES2BA	SMB	ES2F	SMC	1.5SMC24
SMA	ES2CA	SMB	ES2G	SMC	1.5SMC24A
SMA	ES2DA	SMB	ES2H	SMC	1.5SMC24C
SMA	ES2FA	SMB	ES2J	SMC	1.5SMC24CA
SMA	ES2GA	SMB	ES2LD	SMC	1.5SMC27

SMA	ES2HA	SMB	ES2LG	SMC	1.5SMC27A
SMA	ES2JA	SMB	ES2LJ	SMC	1.5SMC27C
SMA	ESH1B	SMB	ES3AB	SMC	1.5SMC27CA
SMA	ESH1C	SMB	ES3BB	SMC	1.5SMC30
SMA	ESH1D	SMB	ES3CB	SMC	1.5SMC30A
SMA	ESH2BA	SMB	ES3DB	SMC	1.5SMC30C
SMA	ESH2CA	SMB	ES3FB	SMC	1.5SMC30CA
SMA	ESH2DA	SMB	ES3GB	SMC	1.5SMC33
SMA	HS1A	SMB	ES3HB	SMC	1.5SMC33A
SMA	HS1B	SMB	ES3JB	SMC	1.5SMC33C
SMA	HS1D	SMB	ESH2B	SMC	1.5SMC33CA
SMA	HS1F	SMB	ESH2C	SMC	1.5SMC36
SMA	HS1G	SMB	ESH2D	SMC	1.5SMC36A
SMA	HS1J	SMB	HS2A	SMC	1.5SMC36C
SMA	HS1K	SMB	HS2B	SMC	1.5SMC36CA
SMA	HS1M	SMB	HS2D	SMC	1.5SMC39
SMA	HS2AA	SMB	HS2F	SMC	1.5SMC39A
SMA	HS2BA	SMB	HS2G	SMC	1.5SMC39C
SMA	HS2DA	SMB	HS2J	SMC	1.5SMC39CA
SMA	HS2FA	SMB	HS2K	SMC	1.5SMC43
SMA	HS2GA	SMB	HS2M	SMC	1.5SMC43A
SMA	HS2JA	SMB	HS3AB	SMC	1.5SMC43C
SMA	HS2KA	SMB	HS3BB	SMC	1.5SMC43CA
SMA	HS2MA	SMB	HS3DB	SMC	1.5SMC47
SMA	P4SMA10	SMB	HS3FB	SMC	1.5SMC47A
SMA	P4SMA100	SMB	HS3GB	SMC	1.5SMC47C
SMA	P4SMA100A	SMB	HS3JB	SMC	1.5SMC47CA
SMA	P4SMA100C	SMB	HS3KB	SMC	1.5SMC51
SMA	P4SMA100CA	SMB	HS3MB	SMC	1.5SMC51A
SMA	P4SMA10A	SMB	MUR105S	SMC	1.5SMC51C
SMA	P4SMA10C	SMB	MUR110S	SMC	1.5SMC51CA
SMA	P4SMA10CA	SMB	MUR115S	SMC	1.5SMC56
SMA	P4SMA11	SMB	MUR120S	SMC	1.5SMC56A
SMA	P4SMA110	SMB	MUR140S	SMC	1.5SMC56C
SMA	P4SMA110A	SMB	MUR160S	SMC	1.5SMC56CA
SMA	P4SMA110C	SMB	MUR305SB	SMC	1.5SMC6.8
SMA	P4SMA110CA	SMB	MUR310SB	SMC	1.5SMC6.8A
SMA	P4SMA11A	SMB	MUR315SB	SMC	1.5SMC6.8C
SMA	P4SMA11C	SMB	MUR320SB	SMC	1.5SMC6.8CA
SMA	P4SMA11CA	SMB	MUR340SB	SMC	1.5SMC62
SMA	P4SMA12	SMB	MUR360SB	SMC	1.5SMC62A
SMA	P4SMA120	SMB	P6SMB10	SMC	1.5SMC62C
SMA	P4SMA120A	SMB	P6SMB100	SMC	1.5SMC62CA
SMA	P4SMA120C	SMB	P6SMB100A	SMC	1.5SMC68
SMA	P4SMA120CA	SMB	P6SMB100C	SMC	1.5SMC68A
SMA	P4SMA12A	SMB	P6SMB100CA	SMC	1.5SMC68C

SMA	P4SMA12C	SMB	P6SMB10A	SMC	1.5SMC68CA
SMA	P4SMA12CA	SMB	P6SMB10C	SMC	1.5SMC7.5
SMA	P4SMA13	SMB	P6SMB10CA	SMC	1.5SMC7.5A
SMA	P4SMA130	SMB	P6SMB11	SMC	1.5SMC7.5C
SMA	P4SMA130A	SMB	P6SMB110	SMC	1.5SMC7.5CA
SMA	P4SMA130C	SMB	P6SMB110A	SMC	1.5SMC75
SMA	P4SMA130CA	SMB	P6SMB110C	SMC	1.5SMC75A
SMA	P4SMA13A	SMB	P6SMB110CA	SMC	1.5SMC75C
SMA	P4SMA13C	SMB	P6SMB11A	SMC	1.5SMC75CA
SMA	P4SMA13CA	SMB	P6SMB11C	SMC	1.5SMC8.2
SMA	P4SMA15	SMB	P6SMB11CA	SMC	1.5SMC8.2A
SMA	P4SMA150	SMB	P6SMB12	SMC	1.5SMC8.2C
SMA	P4SMA150A	SMB	P6SMB120	SMC	1.5SMC8.2CA
SMA	P4SMA150C	SMB	P6SMB120A	SMC	1.5SMC82
SMA	P4SMA150CA	SMB	P6SMB120C	SMC	1.5SMC82A
SMA	P4SMA15A	SMB	P6SMB120CA	SMC	1.5SMC82C
SMA	P4SMA15C	SMB	P6SMB12A	SMC	1.5SMC82CA
SMA	P4SMA15CA	SMB	P6SMB12C	SMC	1.5SMC9.1
SMA	P4SMA16	SMB	P6SMB12CA	SMC	1.5SMC9.1A
SMA	P4SMA160	SMB	P6SMB13	SMC	1.5SMC9.1C
SMA	P4SMA160A	SMB	P6SMB130	SMC	1.5SMC9.1CA
SMA	P4SMA160C	SMB	P6SMB130A	SMC	1.5SMC91
SMA	P4SMA160CA	SMB	P6SMB130C	SMC	1.5SMC91A
SMA	P4SMA16A	SMB	P6SMB130CA	SMC	1.5SMC91C
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SMA	P4SMA16CA	SMB	P6SMB13C	SMC	1PGSMC5348
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SMA	P4SMA180A	SMB	P6SMB15A	SMC	1PGSMC5355
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SMA	P4SMA24C	SMB	P6SMB18A	SMC	ES3DV
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SMA	P4SMA27C	SMB	P6SMB200	SMC	ES3J
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SMA	P4SMA39	SMB	P6SMB22CA	SMC	HS5D
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SMA	P4SMA56CA	SMB	P6SMB36C	SMC	RS3J
SMA	P4SMA6.8	SMB	P6SMB36CA	SMC	RS3K
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SMA	P4SMA62	SMB	P6SMB39CA	SMC	S10KC
SMA	P4SMA62A	SMB	P6SMB43	SMC	S10MC
SMA	P4SMA62C	SMB	P6SMB43A	SMC	S12GC
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SMA	P4SMA68	SMB	P6SMB43CA	SMC	S12KC
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SMA	P4SMA8.2C	SMB	P6SMB6.8A	SMC	S4B
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SMA	P4SMA82	SMB	P6SMB6.8CA	SMC	S4G
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SMA	P4SMA82CA	SMB	P6SMB62C	SMC	S4M
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SMA	P4SMA9.1C	SMB	P6SMB68A	SMC	S5D
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SMA	P4SMA91CA	SMB	P6SMB7.5C	SMC	S8GC
SMA	RS1A	SMB	P6SMB7.5CA	SMC	S8JC
SMA	RS1B	SMB	P6SMB75	SMC	S8KC
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SMA	SMAJ100CA	SMB	SK310B	SMC	SMCJ160
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SMA	SMAJ11A	SMB	SK510B	SMC	SMCJ170A
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SMA	SMAJ130C	SMB	SMB10J12CA	SMC	SMCJ22
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SMA	SMAJ188A	SMB	SMBJ100A	SMC	SMCJ43CA
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SMA	SMAJ188CA	SMB	SMBJ100CA	SMC	SMCJ45A
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SMA	SMAJ18C	SMB	SMBJ10C	SMC	SMCJ45CA
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SMA	SMAJ24CA	SMB	SMBJ120C	SMC	SMCJ54
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SMA	SMAJ26C	SMB	SMBJ12C	SMC	SMCJ54CA
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SMA	SMAJ28	SMB	SMBJ13	SMC	SMCJ58A
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SMA	SMAJ28C	SMB	SMBJ130A	SMC	SMCJ58CA
SMA	SMAJ28CA	SMB	SMBJ130C	SMC	SMCJ6.0
SMA	SMAJ30	SMB	SMBJ130CA	SMC	SMCJ6.0A
SMA	SMAJ30A	SMB	SMBJ13A	SMC	SMCJ6.0C
SMA	SMAJ30C	SMB	SMBJ13C	SMC	SMCJ6.0CA

SMA	SMAJ30CA	SMB	SMBJ13CA	SMC	SMCJ6.5
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SMA	SMAJ33A	SMB	SMBJ14A	SMC	SMCJ6.5C
SMA	SMAJ33C	SMB	SMBJ14C	SMC	SMCJ6.5CA
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SMA	SMAJ36	SMB	SMBJ15	SMC	SMCJ60A
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SMA	SMAJ36C	SMB	SMBJ150A	SMC	SMCJ60CA
SMA	SMAJ36CA	SMB	SMBJ150C	SMC	SMCJ64
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SMA	SMAJ43CA	SMB	SMBJ160C	SMC	SMCJ7.5
SMA	SMAJ45	SMB	SMBJ160CA	SMC	SMCJ7.5A
SMA	SMAJ45A	SMB	SMBJ16A	SMC	SMCJ7.5C
SMA	SMAJ45C	SMB	SMBJ16C	SMC	SMCJ7.5CA
SMA	SMAJ45CA	SMB	SMBJ16CA	SMC	SMCJ70
SMA	SMAJ48	SMB	SMBJ17	SMC	SMCJ70A
SMA	SMAJ48A	SMB	SMBJ170	SMC	SMCJ70C
SMA	SMAJ48C	SMB	SMBJ170A	SMC	SMCJ70CA
SMA	SMAJ48CA	SMB	SMBJ170C	SMC	SMCJ75
SMA	SMAJ5.0	SMB	SMBJ170CA	SMC	SMCJ75A
SMA	SMAJ5.0A	SMB	SMBJ17A	SMC	SMCJ75C
SMA	SMAJ5.0C	SMB	SMBJ17C	SMC	SMCJ75CA
SMA	SMAJ5.0CA	SMB	SMBJ17CA	SMC	SMCJ78
SMA	SMAJ51	SMB	SMBJ18	SMC	SMCJ78A
SMA	SMAJ51A	SMB	SMBJ18A	SMC	SMCJ78C
SMA	SMAJ51C	SMB	SMBJ18C	SMC	SMCJ78CA
SMA	SMAJ51CA	SMB	SMBJ18CA	SMC	SMCJ8.0
SMA	SMAJ54	SMB	SMBJ20	SMC	SMCJ8.0A
SMA	SMAJ54A	SMB	SMBJ20A	SMC	SMCJ8.0C
SMA	SMAJ54C	SMB	SMBJ20C	SMC	SMCJ8.0CA
SMA	SMAJ54CA	SMB	SMBJ20CA	SMC	SMCJ8.5
SMA	SMAJ58	SMB	SMBJ22	SMC	SMCJ8.5A
SMA	SMAJ58A	SMB	SMBJ22A	SMC	SMCJ8.5C
SMA	SMAJ58C	SMB	SMBJ22C	SMC	SMCJ8.5CA
SMA	SMAJ58CA	SMB	SMBJ22CA	SMC	SMCJ85
SMA	SMAJ6.0	SMB	SMBJ24	SMC	SMCJ85A
SMA	SMAJ6.0A	SMB	SMBJ24A	SMC	SMCJ85C
SMA	SMAJ6.0C	SMB	SMBJ24C	SMC	SMCJ85CA
SMA	SMAJ6.0CA	SMB	SMBJ24CA	SMC	SMCJ9.0
SMA	SMAJ6.5	SMB	SMBJ26	SMC	SMCJ9.0A

SMA	SMAJ6.5A	SMB	SMBJ26A	SMC	SMCJ9.0C
SMA	SMAJ6.5C	SMB	SMBJ26C	SMC	SMCJ9.0CA
SMA	SMAJ6.5CA	SMB	SMBJ26CA	SMC	SMCJ90
SMA	SMAJ60	SMB	SMBJ28	SMC	SMCJ90A
SMA	SMAJ60A	SMB	SMBJ28A	SMC	SMCJ90C
SMA	SMAJ60C	SMB	SMBJ28C	SMC	SMCJ90CA
SMA	SMAJ60CA	SMB	SMBJ28CA	SMC	SMDJ100A
SMA	SMAJ64	SMB	SMBJ30	SMC	SMDJ10A
SMA	SMAJ64A	SMB	SMBJ30A	SMC	SMDJ10CA
SMA	SMAJ64C	SMB	SMBJ30C	SMC	SMDJ11A
SMA	SMAJ64CA	SMB	SMBJ30CA	SMC	SMDJ11CA
SMA	SMAJ7.0	SMB	SMBJ33	SMC	SMDJ12A
SMA	SMAJ7.0A	SMB	SMBJ33A	SMC	SMDJ12CA
SMA	SMAJ7.0C	SMB	SMBJ33C	SMC	SMDJ13A
SMA	SMAJ7.0CA	SMB	SMBJ33CA	SMC	SMDJ13CA
SMA	SMAJ7.5	SMB	SMBJ36	SMC	SMDJ14A
SMA	SMAJ7.5A	SMB	SMBJ36A	SMC	SMDJ14CA
SMA	SMAJ7.5C	SMB	SMBJ36C	SMC	SMDJ15A
SMA	SMAJ7.5CA	SMB	SMBJ36CA	SMC	SMDJ15CA
SMA	SMAJ70	SMB	SMBJ40	SMC	SMDJ16A
SMA	SMAJ70A	SMB	SMBJ40A	SMC	SMDJ16CA
SMA	SMAJ70C	SMB	SMBJ40C	SMC	SMDJ17A
SMA	SMAJ70CA	SMB	SMBJ40CA	SMC	SMDJ17CA
SMA	SMAJ75	SMB	SMBJ43	SMC	SMDJ18A
SMA	SMAJ75A	SMB	SMBJ43A	SMC	SMDJ18CA
SMA	SMAJ75C	SMB	SMBJ43C	SMC	SMDJ20A
SMA	SMAJ75CA	SMB	SMBJ43CA	SMC	SMDJ20CA
SMA	SMAJ78	SMB	SMBJ45	SMC	SMDJ22A
SMA	SMAJ78A	SMB	SMBJ45A	SMC	SMDJ22CA
SMA	SMAJ78C	SMB	SMBJ45C	SMC	SMDJ24A
SMA	SMAJ78CA	SMB	SMBJ45CA	SMC	SMDJ24CA
SMA	SMAJ8.0	SMB	SMBJ48	SMC	SMDJ26A
SMA	SMAJ8.0A	SMB	SMBJ48A	SMC	SMDJ26CA
SMA	SMAJ8.0C	SMB	SMBJ48C	SMC	SMDJ28A
SMA	SMAJ8.0CA	SMB	SMBJ48CA	SMC	SMDJ28CA
SMA	SMAJ8.5	SMB	SMBJ5.0	SMC	SMDJ30A
SMA	SMAJ8.5A	SMB	SMBJ5.0A	SMC	SMDJ30CA
SMA	SMAJ8.5C	SMB	SMBJ5.0C	SMC	SMDJ33A
SMA	SMAJ8.5CA	SMB	SMBJ5.0CA	SMC	SMDJ33CA
SMA	SMAJ85	SMB	SMBJ51	SMC	SMDJ36A
SMA	SMAJ85A	SMB	SMBJ51A	SMC	SMDJ36CA
SMA	SMAJ85C	SMB	SMBJ51C	SMC	SMDJ40A
SMA	SMAJ85CA	SMB	SMBJ51CA	SMC	SMDJ40CA
SMA	SMAJ9.0	SMB	SMBJ54	SMC	SMDJ43A
SMA	SMAJ9.0A	SMB	SMBJ54A	SMC	SMDJ43CA
SMA	SMAJ9.0C	SMB	SMBJ54C	SMC	SMDJ45A

SMA	SMAJ9.0CA	SMB	SMBJ54CA	SMC	SMDJ45CA
SMA	SMAJ90	SMB	SMBJ58	SMC	SMDJ48A
SMA	SMAJ90A	SMB	SMBJ58A	SMC	SMDJ48CA
SMA	SMAJ90C	SMB	SMBJ58C	SMC	SMDJ51A
SMA	SMAJ90CA	SMB	SMBJ58CA	SMC	SMDJ51CA
SMA	SS110	SMB	SMBJ6.0	SMC	SMDJ54A
SMA	SS115	SMB	SMBJ6.0A	SMC	SMDJ54CA
SMA	SS12	SMB	SMBJ6.0C	SMC	SMDJ58A
SMA	SS120	SMB	SMBJ6.0CA	SMC	SMDJ58CA
SMA	SS13	SMB	SMBJ6.5	SMC	SMDJ60A
SMA	SS14	SMB	SMBJ6.5A	SMC	SMDJ60CA
SMA	SS15	SMB	SMBJ6.5C	SMC	SMDJ64A
SMA	SS16	SMB	SMBJ6.5CA	SMC	SMDJ64CA
SMA	SS19	SMB	SMBJ60	SMC	SMDJ70A
SMA	SSL12	SMB	SMBJ60A	SMC	SMDJ75A
SMA	SSL13	SMB	SMBJ60C	SMC	SMDJ78A
SMA	SSL14	SMB	SMBJ60CA	SMC	SMDJ85A
SMA	TSD1G	SMB	SMBJ64	SMC	SMDJ90A
SMA	TSSA3U45	SMB	SMBJ64A	SMC	SS310
SMA	TSSA3U60	SMB	SMBJ64C	SMC	SS315
SMA	UG2JA	SMB	SMBJ64CA	SMC	SS32
SMA	US1A	SMB	SMBJ7.0	SMC	SS320
SMA	US1B	SMB	SMBJ7.0A	SMC	SS33
SMA	US1D	SMB	SMBJ7.0C	SMC	SS34
SMA	US1G	SMB	SMBJ7.0CA	SMC	SS35
SMA	US1J	SMB	SMBJ7.5	SMC	SS36
SMA	US1K	SMB	SMBJ7.5A	SMC	SS39
SMA	US1M	SMB	SMBJ7.5C	SMC	SSL32
SMA	S1Q	SMB	SMBJ7.5CA	SMC	SSL33
SMA	TSD1G	SMB	SMBJ70	SMC	SSL34
SMB	S5QB	SMB	SMBJ70A	SMC	S3Q
SMB	1KSMB100A	SMB	SMBJ70C	SMC	S5Q