

Product Change Notification / JAON-17DZYV010

Product Category: Memory PCN Type: Manufacturing Change Notification Subject: CCB 4560 Final Notice: Qualification of SIGN as a new assembly site for selected SST39LF80xx, SST39VF160xx and SST39VF80xx device families available in 48L TSOP (12x20mm) package. Affected CPNs: JAON-17DZYV010_Affected_CPN_10012021.pdf JAON-17DZYV010_Affected_CPN_10012021.esv Notification Text: PCN Status:Final Notification PCN Type:Manufacturing Change Microchip Parts Affected:Please open one of the files found in the Affected CPNs section. Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls) Description of Change:Qualification of SIGN as a new assembly site for selected SST39LF80xx, SST39VF160xx and SST39VF80xx device families available in 48L TSOP (12x20mm) package. Pre and Post Change Summary:	Product Category: Memory PCN Type: Manufacturing Change Notification Subject: CCB 4560 Final Notice: Qualification of SIGN as a new assembly site for selected SST39LF80xx, SST39VF160xx and SST39VF80xx device families available in 48L TSOP (12x20mm) package. Affected CPNs: JAON-17DZYV010_Affected_CPN_10012021.pdf JAON-17DZYV010_Affected_CPN_10012021.csv Notification Text: PCN Status:Final Notification PCN Type:Manufacturing Change Microchip Parts Affected:Please open one of the files found in the Affected CPNs section. Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls) Description of Change:Qualification of SIGN as a new assembly site for selected SST39LF80xx, SST39VF160xx and SST39VF80xx device families available in 48L TSOP (12x20mm) package.		Pre Change	Post Change				
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Product Category: Memory PCN Type:	O1-Oct-2021 Product Category: Memory PCN Type:	Notification Subj	ect:					
Product Category: Memory	01-Oct-2021 Product Category: Memory	Manufacturing Chang	re					
Product Category:	01-Oct-2021 Product Category:	PCN Type:						
	01-Oct-2021	Memory						
01-Oct-2021		Product Category	y :					
	Date:							
Date:		Date:						

Assembly Site	_	n Industries, LTD. PI)	Signetics Corporation (SIGN)			
Bond Wire material	А	u	A	u		
Die Attach material	83	40	AP-4	1300		
Mold compound material	G7	00	G700			
Lead frame material	C70)25	C7025			
DAP Surface plating	Ring /Selec	tive Plating	Ring /Selective Plating			
Lead frame paddle	207x142mils Note 1	160x130mils Note 2	209x165mils Note 1	159x165mils Note 2		
size	See a	attached pre and p	ost change compai	rison.		

Note 1: Applicable for SST39VF160xx device family.

Note 2: Applicable for SST39LF80xx and SST39VF80xx device families

Impacts to Data Sheet:None

Change ImpactNone

Reason for Change:To improve on-time delivery performance by qualifying SIGN as a new assembly site.

Change Implementation Status:In Progress

Estimated First Ship Date:October 31, 2021 (date code: 2145)

Note: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Time Table Summary:

	February 2021				^	October 2021						
Morlavook	0	0	0	0	1		4	4	4	4	4	4
Workweek	6	7	8	9	0		0	1	2	3	4	5
Initial PCN Issue												
Date				Х								

Qual Report Availability				х			
Final PCN Issue Date				х			
Estimated Implementation Date							х

Method to Identify Change:Traceability code

Qualification Report:Please open the attachments included with this PCN labeled as PCN # Qual Report.

Revision History: February 19, 2021: Issued initial notification.

April 08, 2021: Re-issued initial notification to update the pre and post comparison table to modify SIGN die attach material from 8340 to AP-4300. Updated LPI DAP surface plating from Ring plating to Ring /Selective plating and updated SIGN DAP surface plating from Double ring plating to Ring /Selective plating. Updated the Qual plan summary to modify SIGN die attach material from 8340 to AP-4300 and to modify SIGN DAP surface plating from Double ring plating to Ring /Selective plating.

October 1, 2021: Issued final notification.

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

Attachments:

PCN_JAON-17DZYV010_Qual Report.pdf PCN_JAON-17DZYV010_Pre and Post Change_Summary.pdf

Please contact your local Microchip sales office with questions or concerns regarding this notification.

Terms and Conditions:

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

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

JAON-17DZYV010 - CCB 4560 Final Notice: Qualification of SIGN as a new assembly site for selected SST39LF80xx, SST39VF160xx and SST39VF80xx device families available in 48L TSOP (12x20mm) package.

Affected Catalog Part Numbers (CPN)

SST39VF1601C-70-4C-EKE

SST39VF1602C-70-4C-EKE

SST39VF1601C-70-4I-EKE

SST39VF1602C-70-4I-EKE

SST39VF1602C-70-4I-EKE-MCK

SST39VF1601C-70-4C-EKE-T

SST39VF1602C-70-4C-EKE-T

SST39VF1601C-70-4I-EKE-T

SST39VF1602C-70-4I-EKE-T

SST39LF801C-55-4C-EKE

SST39LF802C-55-4C-EKE

SST39VF801C-70-4C-EKE

SST39VF802C-70-4C-EKE

SST39VF801C-70-4I-EKE

SST39VF802C-70-4I-EKE

SST39LF801C-55-4C-EKE-T

SST39LF802C-55-4C-EKE-T

SST39VF801C-70-4C-EKE-T

SST39VF802C-70-4C-EKE-T

SST39VF801C-70-4I-EKE-T

SST39VF802C-70-4I-EKE-T

CCB 4560 Pre and Post Change Summary PCN # JAON-17DZYV010



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



Qualification of SIGN as a new assembly site for selected SST39LF80xx, SST39VF160xx and SST39VF80xx device families available in 48L TSOP (12x20mm) package.

Lead frame Comparison

Pre Cl		Post Change SIGN					
Applicable for SST39VF160xx device family.	Applicable for SST39LF80xx and SST39VF80xx device families	Applicable for SST39VF160xx device family.	Applicable for SST39LF80xx and SST39VF80xx device families				





QUALIFICATION REPORT SUMMARY

PCN #: JAON-17DZYV010

Date: September 17, 2021

Qualification of SIGN as a new assembly site for selected SST39LF80xx, SST39VF160xx and SST39VF80xx device families available in 48L TSOP (12x20mm) package.



Purpose Qualification of SIGN as a new assembly site for selected SST39LF80xx,

SST39VF160xx and SST39VF80xx device families available in 48L TSOP (12x20mm)

package.

CCB 4560

CN ES358569

QUAL ID R2100641 Rev. A **MP CODE** X02047W9XMCK

Part No. SST39VF1602C-70-4I-EKE-MCK

Bonding No. BDM-002853 Rev. B

Package

Type 48L TSOP
Package size 12 x 20 mm

Lead Frame

Paddle size 209 x 165 mils

Material C7025

Surface Ring / Selective Plating

Process Stamped

Lead Lock No

Part Number FLF-00001
Treatment Roughened

Material

Epoxy AP-4300
Wire Au wire
Mold Compound G700
Plating Composition Matte Sn



Manufacturing Information

Lot No.	WF No.	Date Code
SIGN220700001.000	GC01922039608.200	21191RS
SIGN220700002.000	GC01922039608.200	21191T4
SIGN220700003.000	GC01922039608.200	21191TW

Result	X Pass	Fail	
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48L TSOP (12x20 mm) assembled by SIGN pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 3 at 260°C reflow temperature per IPC/JEDEC J-STD-020E standard.

	PACKAGE QUALIFICATION REPORT									
Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS	Result	Remarks				
Precondition Prior Perform	Electrical Test: +25°C, 85°C and -40°C System: NEXTEST_GV2X	JESD22- A113	693(0)	693		Good Devices				
Reliability Tests (At MSL Level 3)	Bake 150°C, 24 hrs System: CHINEE	JIP/ IPC/JEDEC		693						
	30°C/60%RH Moisture Soak 192 hrs. System: TABAI ESPEC Model PR-3SPH	J-STD-020E		693						
	3x Convection-Reflow 265°C max			693						
	System: Vitronics Soltec MR1243									
	Electrical Test: +25°C and 85°C System: NEXTEST_GV2X			0/693	Pass					

	PACKAGE QUALIFICA	ATION	REF	PORT		
Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
	Stress Condition: -65°C to +150°C, 500 Cycles System: TABAI ESPEC TSA-70H	JESD22- A104		231		Parts had been pre-conditioned at 260°C
Temp Cycle	Electrical Test: +85°C System: NEXTEST_GV2X		231(0)	0/231	Pass	77 units / lot
	Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)		15 (0) 15 (0)	0/15 0/15	Pass Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22- A118		231		Parts had been pre-conditioned at 260°C
UNDIAGED-HAGT	Electrical Test: +25°C System: NEXTEST_GV2X		231(0)	0/231	Pass	77 units / lot
HAST	Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 3.5 Volts System: HAST 6000X	JESD22- A110		231		Parts had been pre-conditioned at 260°C
ПАЭТ	Electrical Test: +25°C and 85°C System: NEXTEST_GV2X		231(0)	0/231	Pass	77 units / lot

	PACKAGE QUALIFIC	ATION	I REF	PORT	•	
Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB	JESD22- A103		45		45 units
	Electrical Test: +25°C and 85°C System: NEXTEST_GV2X		45(0)	0/45	Pass	
Solderability	Steam Aging: Temp 93°C,8Hrs System: SAS-3000	J-STD-002	22 (0)	22		
Temp 245°C	Solder Dipping:Solder Temp.245°C Solder material:Pb Free Sn 95.5Ag3.9 Cu0.6			22		
	System: ERSA RA 2200D Visual Inspection: External Visual Inspection			0/22	Pass	
Physical	Physical Dimension,	JESD22- B100/B108	30(0) Units	0/30	Pass	
Dimensions	10 units from 1 lot	טו טייייי ט	Ullits			
Bond Strength	Wire Pull (> 2.40 grams)	Mil. Std. 883-2011	30 (0) Wires	0/30	Pass	
Data Assembly	Bond Shear (> 8.00 grams)	CDF-AEC- Q100-001	30 (0) bonds	0/30	Pass	