

# Product Change Notification - JAON-14TQBC849

**Date:** 22 Dec 2016

**Product Category:** Power Management - PWM Controllers; Interface- Infrared Products; Interface- Serial Peripherals; Energy Measurement; Capacitive Touch Sensors; 8-bit PIC Microcontrollers; 16-Bit - Microcontrollers and Digital Signal Controllers; 32-bit PIC Microcontrollers; Piezoelectric Horn Drivers

**Notification subject:** CCB 2818 Initial Notice: Qualification of silver (Ag)-on-leads plated lead frame for selected products available in 20L SSOP package at MTAI assembly site.

**Notification text:** **PCN Status:**  
Initial notification

**Microchip Parts Affected:**

Please open the attachments found in the attachments field below labeled as PCN\_#\_Affected\_CPN.

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

**Description of Change:**

Qualification of silver (Ag)-on-leads plated lead frame for selected products available in 20L SSOP package at MTAI assembly site.

**Pre Change:**

Lead frame with silver (Ag) spot plating

**Post Change:**

Lead frame with silver (Ag)-on-leads plating

**Pre and Post Change Summary:**

	Pre Change	Post Change
<b>Assembly Site</b>	MTAI	MTAI
<b>Wire material</b>	Au wire	Au wire
<b>Die attach material</b>	8390A	8390A
<b>Molding compound material</b>	G600	G600
<b>Lead frame material</b>	CDA194	CDA194
<b>Lead Frame Surface</b>	Ag spot plating	Ag on leads plating

**Impacts to Data Sheet:**

None

**Change Impact:**

None

**Reason for Change:**

To improve productivity and qualifying lead frame with silver (Ag)-on-leads plating.

**Change Implementation Status:**

In Progress

**Estimated Qualification Completion Date:**

February 2017

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date.

**Time Table Summary:**

	December 2016					->	February 2017			
Workweek	48	49	50	51	52		05	06	07	08
Initial PCN Issue Date				X						
Qual Report Availability										X
Final PCN Issue Date										X

**Method to Identify Change:**

Traceability code

**Qualification Plan:**

Please open the attachments included with this PCN labeled as PCN\_#\_Qual Plan.

**Revision History:****December 22, 2016:** Issued initial notification.

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

**Attachment(s):**[PCN\\_JAON-14TQBC849\\_Qual Plan.pdf](#)[PCN\\_JAON-14TQBC849\\_Affected CPN.pdf](#)[PCN\\_JAON-14TQBC849\\_Affected CPN.xls](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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JAON-14TQBC849 - CCB 2818 Initial Notice: Qualification of silver (Ag)-on-leads plated lead frame for selected products available in 20L SSOP package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
CFPIC-I/SSC01
HA0119-I/SS
HA0120T-I/SS
HA0140-I/SS
HA0140T-I/SS
HA1030-I/SS
HA1030T-I/SS
HA1031-I/SS
HA1031T-I/SS
HA1218-I/SS
HA1515-I/SS
HA1515T-I/SS
HA2580-I/SS
HA2580T-I/SS
HA5288-I/SS
HS12-100P0/12PS0F
HS12-100P0/12PS0FTR
HS12-100P0/12PS15
MCP1631-E/SS
MCP1631HV-330E/SS
MCP1631HV-500E/SS
MCP1631HVT-330E/SS
MCP1631HVT-500E/SS
MCP1631T-E/SS
MCP1631V-E/SS
MCP1631VHV-330E/SS
MCP1631VHV-500E/SS
MCP1631VHVT-330E/SS
MCP1631VHVT-500E/SS
MCP1631VT-E/SS
MCP2140A-I/SS
MCP2140AT-I/SS
MCP2140-I/SS
MCP2140-I/SSRVB
MCP2140T-I/SS
MCP2140T-I/SSRVB
MCP23009-E/SS
MCP23009T-E/SS
MCP23S08-E/SS
MCP23S08-E/SSAPL
MCP23S08T-E/SS
MCP23S08T-E/SSAPL
MCP3901A0-E/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
MCP3901A0-I/SS
MCP3901A0T-E/SS
MCP3901A0T-I/SS
MCP3910A1-E/SS
MCP3910A1T-E/SS
MCP3911A0-E/SS
MCP3911A0T-E/SS
MCP3918A1-E/SS
MCP3918A1T-E/SS
MCP39ITR10-E/SS
MCP39ITR10T-E/SS
MTCH108-I/SS
MTCH108T-I/SS
PIC16C54-10/SS
PIC16C54-10I/SS
PIC16C54A-04/SS
PIC16C54A-04I/SS
PIC16C54A-10/SS
PIC16C54A-10I/SS
PIC16C54A-20/SS
PIC16C54A-20I/SS
PIC16C54AT-04I/SS
PIC16C54C-04/SS
PIC16C54C-04E/SS
PIC16C54C-04I/SS
PIC16C54C-04I/SS102
PIC16C54C-04I/SS121
PIC16C54C-20/SS
PIC16C54C-20E/SS
PIC16C54C-20I/SS
PIC16C54CT-04I/SS
PIC16C54CT-20/SS
PIC16C54-HS/SS
PIC16C54-LP/SS
PIC16C54-LPI/SS
PIC16C54-RC/SS
PIC16C54-RCI/SS
PIC16C54T-XT/SS
PIC16C54-XT/SS
PIC16C54-XTI/SS
PIC16C554-04/SS
PIC16C554-04I/SS
PIC16C554-20/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16C554-20I/SS
PIC16C554T-04/SS
PIC16C558-04/SS
PIC16C558-04E/SS
PIC16C558-04I/SS
PIC16C558-20/SS
PIC16C558-20I/SS
PIC16C56-10/SS
PIC16C56-10I/SS
PIC16C56-HS/SS
PIC16C56-HSI/SS
PIC16C56-LP/SS
PIC16C56-LPI/SS
PIC16C56-RC/SS
PIC16C56-RCI/SS
PIC16C56-XT/SS
PIC16C56-XTI/SS
PIC16C58B-04/SS
PIC16C58B-04I/SS
PIC16C58B-20/SS
PIC16C58B-20I/SS
PIC16C58B-40/SS
PIC16C620-04/SS
PIC16C620-04E/SS
PIC16C620-04I/SS
PIC16C620-20/SS
PIC16C620-20I/SS
PIC16C620A-04/SS
PIC16C620A-04E/SS
PIC16C620A-04I/SS
PIC16C620A-20/SS
PIC16C620A-20E/SS
PIC16C620A-20I/SS
PIC16C620AT-04/SS
PIC16C620AT-04I/SS
PIC16C620AT-04I/SS043
PIC16C621-04/SS
PIC16C621-04I/SS
PIC16C621-20/SS
PIC16C621-20I/SS
PIC16C621A-04/SS
PIC16C621A-04E/SS
PIC16C621A-04I/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16C621A-20/SS
PIC16C621A-20E/SS
PIC16C621A-20I/SS
PIC16C621AT-04/SS
PIC16C621AT-04I/SS082
PIC16C621AT-04I/SS083
PIC16C621AT-20I/SS
PIC16C621T-20/SS
PIC16C622-04/SS
PIC16C622-04E/SS
PIC16C622-04I/SS
PIC16C622-20/SS
PIC16C622-20E/SS
PIC16C622-20I/SS
PIC16C622A-04/SS
PIC16C622A-04E/SS
PIC16C622A-04I/SS
PIC16C622A-20/SS
PIC16C622A-20E/SS
PIC16C622A-20I/SS
PIC16C622A-20I/SSHXX
PIC16C622AT-04/SS
PIC16C622AT-04E/SS
PIC16C622AT-04E/SS082
PIC16C622AT-04I/SS
PIC16C622AT-04I/SS081
PIC16C622AT-04I/SS095
PIC16C622AT-20I/SS
PIC16C622T-20I/SS
PIC16C710-04/SS
PIC16C710-04I/SS
PIC16C710-20/SS
PIC16C710-20I/SS
PIC16C710T-04/SS
PIC16C712-04/SS
PIC16C712-04E/SS
PIC16C712-04I/SS
PIC16C712-20/SS
PIC16C712-20E/SS
PIC16C712-20I/SS
PIC16C712T-04/SS
PIC16C712T-20I/SS
PIC16C715-04/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16C715-04E/SS
PIC16C715-04I/SS
PIC16C715-20/SS
PIC16C715-20I/SS
PIC16C715T-04/SS
PIC16C715T-04E/SS
PIC16C715T-04I/SS
PIC16C715T-20/SS
PIC16C715T-20I/SS
PIC16C716-04/SS
PIC16C716-04E/SS
PIC16C716-04I/SS
PIC16C716-20/SS
PIC16C716-20E/SS
PIC16C716-20I/SS
PIC16C716T-04E/SS
PIC16C716T-20I/SS
PIC16F1459-E/SS
PIC16F1459-I/SS
PIC16F1459T-I/SS
PIC16F1507-E/SS
PIC16F1507-I/SS
PIC16F1507T-E/SS
PIC16F1507T-I/SS
PIC16F1508-E/SS
PIC16F1508-I/SS
PIC16F1508T-E/SS
PIC16F1508T-I/SS
PIC16F1508T-I/SS020
PIC16F1508T-I/SS031
PIC16F1509-E/SS
PIC16F1509-I/SS
PIC16F1509-I/SS021
PIC16F1509-I/SSC02
PIC16F1509T-E/SS
PIC16F1509T-I/SS
PIC16F1509T-I/SS021
PIC16F1509T-I/SS023
PIC16F1509T-I/SSC02
PIC16F1578-E/SS
PIC16F1578-I/SS
PIC16F1578T-I/SS
PIC16F1579-E/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16F1579-I/SS
PIC16F1579T-E/SS
PIC16F1579T-I/SS
PIC16F1618-E/SS
PIC16F1618-I/SS
PIC16F1618T-I/SS
PIC16F1619-E/SS
PIC16F1619-I/SS
PIC16F1619T-E/SS
PIC16F1619T-I/SS
PIC16F1707-E/SS
PIC16F1707-I/SS
PIC16F1707T-I/SS
PIC16F1708-E/SS
PIC16F1708-I/SS
PIC16F1708T-I/SS
PIC16F1709-E/SS
PIC16F1709-I/SS
PIC16F1709T-E/SS
PIC16F1709T-I/SS
PIC16F1768-E/SS
PIC16F1768-I/SS
PIC16F1768T-I/SS
PIC16F1769-E/SS
PIC16F1769-I/SS
PIC16F1769T-I/SS
PIC16F18344-E/SS
PIC16F18344-I/SS
PIC16F18344T-I/SS
PIC16F18345-E/SS
PIC16F18345-I/SS
PIC16F18345T-E/SS
PIC16F18345T-I/SS
PIC16F18346-E/SS
PIC16F18346-I/SS
PIC16F18346T-I/SS
PIC16F1847-E/SS
PIC16F1847-I/SS
PIC16F1847T-E/SS
PIC16F1847T-I/SS
PIC16F527-E/SS
PIC16F527-I/SS
PIC16F527-I/SSC01



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PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16F527-I/SSC03
PIC16F527T-I/SS
PIC16F527T-I/SS021
PIC16F527T-I/SSC01
PIC16F527T-I/SSC03
PIC16F627A-E/SS
PIC16F627A-I/SS
PIC16F627AT-E/SS
PIC16F627AT-I/SS
PIC16F628A-E/SS
PIC16F628A-I/SS
PIC16F628AT-E/SS
PIC16F628AT-I/SS
PIC16F631-E/SS
PIC16F631-I/SS
PIC16F631T-E/SS
PIC16F631T-I/SS
PIC16F648A-E/SS
PIC16F648A-I/SS
PIC16F648A-I/SSC06
PIC16F648AT-E/SS
PIC16F648AT-I/SS
PIC16F677-E/SS
PIC16F677-I/SS
PIC16F677T-E/SS
PIC16F677T-E/SS028
PIC16F677T-I/SS
PIC16F677T-I/SS030
PIC16F677T-I/SS032
PIC16F677T-I/SS034
PIC16F677T-I/SS036
PIC16F685-E/SS
PIC16F685-I/SS
PIC16F685T-E/SS
PIC16F685T-I/SS
PIC16F685T-I/SS021
PIC16F687-E/SS
PIC16F687-I/SS
PIC16F687T-E/SS
PIC16F687T-I/SS
PIC16F687T-I/SS039
PIC16F687T-I/SS040
PIC16F689-E/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16F689-I/SS
PIC16F689-I/SS050
PIC16F689T-E/SS
PIC16F689T-I/SS
PIC16F689T-I/SS034
PIC16F689T-I/SS035
PIC16F690-E/SS
PIC16F690-I/SS
PIC16F690-I/SS025
PIC16F690-I/SSC05
PIC16F690-I/SSC11
PIC16F690T-E/SS
PIC16F690T-E/SS049
PIC16F690T-I/SS
PIC16F690T-I/SS026
PIC16F690T-I/SS029
PIC16F690T-I/SS033
PIC16F690T-I/SS038
PIC16F690T-I/SS039
PIC16F690T-I/SS041
PIC16F690T-I/SSC11
PIC16F690T-I/SSC13
PIC16F716-E/SS
PIC16F716-I/SS
PIC16F716-I/SS067
PIC16F716T-E/SS
PIC16F716T-I/SS
PIC16F716T-I/SS045
PIC16F716T-I/SS056
PIC16F716T-I/SS060
PIC16F716T-I/SS062
PIC16F716T-I/SS063
PIC16F716T-I/SS064
PIC16F716T-I/SS065
PIC16F716T-I/SS067
PIC16F716T-I/SS068
PIC16F716T-I/SS069
PIC16F716T-I/SS070
PIC16F716T-I/SS071
PIC16F716T-I/SSC10
PIC16F785-E/SS
PIC16F785-I/SS
PIC16F785-I/SS048

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PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16F785T-E/SS
PIC16F785T-I/SS
PIC16F785T-I/SS020
PIC16F84A-04/SS
PIC16F84A-04I/SS
PIC16F84A-20/SS
PIC16F84A-20I/SS
PIC16F84AT-20/SS
PIC16HV540-04/SS
PIC16HV540-04I/SS
PIC16HV540-20/SS
PIC16HV540-20I/SS
PIC16LC54A-04/SS
PIC16LC54A-04I/SS
PIC16LC54AT-04/SS
PIC16LC54AT-04I/SS
PIC16LC54C-04/SS
PIC16LC54C-04I/SS
PIC16LC554-04/SS
PIC16LC554-04I/SS
PIC16LC554T-04/SS
PIC16LC554T-04I/SS
PIC16LC558-04/SS
PIC16LC558-04I/SS
PIC16LC58B-04/SS
PIC16LC58B-04I/SS
PIC16LC58BT-04/SS074
PIC16LC620-04/SS
PIC16LC620-04I/SS
PIC16LC620A-04/SS
PIC16LC620A-04E/SS
PIC16LC620A-04I/SS
PIC16LC620AT-04/SS
PIC16LC620AT-04I/SS
PIC16LC621-04/SS
PIC16LC621-04I/SS
PIC16LC621A-04/SS
PIC16LC621A-04E/SS
PIC16LC621A-04I/SS
PIC16LC621AT-04/SS
PIC16LC621AT-04/SSC01
PIC16LC622-04/SS
PIC16LC622-04I/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16LC622A-04/SS
PIC16LC622A-04E/SS
PIC16LC622A-04I/SS
PIC16LC622AT-04/SS
PIC16LC622AT-04/SSC01
PIC16LC622AT-04I/SS
PIC16LC622T-04/SS
PIC16LC710-04/SS
PIC16LC710-04I/SS
PIC16LC712-04/SS
PIC16LC712-04I/SS
PIC16LC712T-04I/SS
PIC16LC712T-04I/SS039
PIC16LC715-04/SS
PIC16LC715-04I/SS
PIC16LC715T-04/SS
PIC16LC715T-04I/SS
PIC16LC716-04/SS
PIC16LC716-04I/SS
PIC16LC716T-04/SS
PIC16LF1459-E/SS
PIC16LF1459-I/SS
PIC16LF1459T-I/SS
PIC16LF1459T-I/SS020
PIC16LF1507-E/SS
PIC16LF1507-I/SS
PIC16LF1507T-I/SS
PIC16LF1507T-I/SS020
PIC16LF1508-E/SS
PIC16LF1508-I/SS
PIC16LF1508-I/SS025
PIC16LF1508T-E/SS
PIC16LF1508T-I/SS
PIC16LF1508T-I/SS022
PIC16LF1508T-I/SS025
PIC16LF1509-E/SS
PIC16LF1509-I/SS
PIC16LF1509-I/SSC01
PIC16LF1509T-I/SS
PIC16LF1509T-I/SS026
PIC16LF1509T-I/SSC01
PIC16LF1559-E/SS
PIC16LF1559-I/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16LF1559T-I/SS
PIC16LF1578-E/SS
PIC16LF1578-I/SS
PIC16LF1578T-I/SS
PIC16LF1579-E/SS
PIC16LF1579-I/SS
PIC16LF1579T-I/SS
PIC16LF1618-E/SS
PIC16LF1618-I/SS
PIC16LF1618T-I/SS
PIC16LF1619-E/SS
PIC16LF1619-I/SS
PIC16LF1619T-I/SS
PIC16LF1707-E/SS
PIC16LF1707-I/SS
PIC16LF1707T-I/SS
PIC16LF1708-E/SS
PIC16LF1708-I/SS
PIC16LF1708T-I/SS
PIC16LF1709-E/SS
PIC16LF1709-I/SS
PIC16LF1709T-I/SS
PIC16LF1768-E/SS
PIC16LF1768-I/SS
PIC16LF1768T-I/SS
PIC16LF1769-E/SS
PIC16LF1769-I/SS
PIC16LF1769T-I/SS
PIC16LF1828-E/SS
PIC16LF1828-I/SS
PIC16LF1828-I/SSC01
PIC16LF1828T-I/SS
PIC16LF1828T-I/SS020
PIC16LF1828T-I/SS021
PIC16LF18344-E/SS
PIC16LF18344-I/SS
PIC16LF18344T-I/SS
PIC16LF18345-E/SS
PIC16LF18345-I/SS
PIC16LF18345T-I/SS
PIC16LF18346-E/SS
PIC16LF18346-I/SS
PIC16LF18346T-I/SS

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Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC16LF627A-I/SS
PIC16LF627AT-I/SS
PIC16LF627AT-I/SS031
PIC16LF627AT-I/SS032
PIC16LF627AT-I/SS036
PIC16LF627AT-I/SSC09
PIC16LF628A-I/SS
PIC16LF628AT-I/SS
PIC16LF628AT-I/SS053
PIC16LF628AT-I/SS054
PIC16LF628AT-I/SS071
PIC16LF648A/SS
PIC16LF648A-I/SS
PIC16LF648AT-I/SS
PIC16LF84A-04/SS
PIC16LF84A-04I/SS
PIC16LF84AT-04/SS
PIC16LF84AT-04I/SS
PIC16LV54A-02/SS
PIC16LV54A-02I/SS
PIC16LV54AT-02I/SS
PIC18F14K22-E/SS
PIC18F14K22-I/SS
PIC18F14K22T-E/SS
PIC18F14K22T-I/SS
PIC18LF13K50-I/SS
PIC18LF13K50T-I/SS
PIC24F04KA201-I/SS
PIC24F04KA201T-I/SS
PIC24F04KL101-E/SS
PIC24F04KL101-I/SS
PIC24F04KL101T-I/SS
PIC24F08KL201-E/SS
PIC24F08KL201-I/SS
PIC24F08KL201T-I/SS
PIC24F08KL301-E/SS
PIC24F08KL301-I/SS
PIC24F08KL301T-I/SS
PIC24F08KL401-E/SS
PIC24F08KL401-I/SS
PIC24F08KL401T-I/SS
PIC24F16KL401-E/SS
PIC24F16KL401-I/SS

JAON-14TQBC849 - CCB 2818 Initial Notice: Qualification of silver (Ag)-on-leads plated lead frame for selected products available in 20L SSOP package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

PCN_JAON-14TQBC849
CATALOG_PART_NBR
PIC24F16KL401T-I/SS
PIC32MM0016GPL020-I/SS
PIC32MM0016GPL020T-I/SS
PIC32MM0032GPL020-I/SS
PIC32MM0032GPL020T-I/SS
PIC32MM0064GPL020-I/SS
PIC32MM0064GPL020T-I/SS
RE265SS20
RE265SS20T
RE350SS20T
RE352SS20T
RE353SS20
RE353SS20T
RE46C800SS20
RE46C800SS20T



**MICROCHIP**

# **QUALIFICATION PLAN**

**PCN #: JAON-14TQBC849**

**Date:  
December 01, 2016**

**Qualification of silver (Ag)-on-leads plated lead frame for  
selected products available in 20L SSOP package at MTAI  
assembly site.**

## Distribution

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**Purpose:** Qualification of silver (Ag)-on-leads plated lead frame for selected products available in 20L SSOP package at MTAI assembly site.

**CCB No.:** 2818

<b>Misc.</b>	<b>Assembly site</b>	MTAI
	<b>BD Number</b>	BDM-001236 rev. D
	<b>MP Code (MPC)</b>	DEBN14G3XAXF
	<b>Part Number (CPN)</b>	PIC16F685-E/SS
<b>Lead-Frame</b>	<b>Paddle size</b>	126x169 mils
	<b>Material</b>	CDA194
	<b>Surface</b>	Bare Cu paddle, Ag on leads
	<b>Treatment</b>	Brown oxide treatment (BOT)
	<b>Process</b>	Etched
	<b>Lead-lock</b>	No
	<b>Part Number</b>	10102014
	<b>Lead Plating</b>	Matte Tin
<b>Bond Wire</b>	<b>Material</b>	Au
<b>Die Attach</b>	<b>Part Number</b>	8390A
	<b>Conductive</b>	Yes
<b>MC</b>	<b>Part Number</b>	G600V
<b>PKG</b>	<b>PKG Type</b>	SSOP
	<b>Pin/Ball Count</b>	20
	<b>PKG width/size</b>	.209"
<b>Die</b>	<b>Die Thickness</b>	15 mils
	<b>Die Size</b>	97.5 x 86.3 mils

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Standard Pb-free Solderability	J-STD-002; Perform 8 hour steam aging for Matte tin finish and 1 hour steam aging for NiPdAu finish prior to testing.  Standard Pb-free: Matte tin/ NiPdAu finish, SAC solder, wetting temp 245°C for both SMD & through hole packages.	22	5	1	27	> 95% lead coverage	5	Standard Pb-free solderability is the requirement. SnPb solderability (backward solderability- SMD reflow soldering) is required for any plating related changes and highly recommended for other package BOM changes.
Backward Solderability	J-STD-002; Perform 8 hours steam aging for Matte tin finish and 1 hour steam aging for NiPdAu finish prior to testing.  Backward: Matte tin/ NiPdAu finish, SnPb solder, wetting temp 215°C for SMD.	22	5	1	27	> 95% lead coverage	5	
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	3	24	0 fails after TC	5	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	3	24	0	5	30 bonds from a minimum of 5 devices.
Physical Dimensions	Measure per JESD22 B100 and B108	10	0	3	30	0	5	
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	
HTSL (High Temp Storage Life)	+175 C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25°C and hot temp, 1 lot to be tested at 125°C	45	5	1	50	0	10	Must be in progress at time of package release to production, but completion is not required for release to production.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020D for package type; Electrical test pre and post stress at +25°C. MSL1 @ 260°C (1 lot to be tested at 125°C)	231	15	3	738	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp, 1 lot to be tested at 125°C	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Unbiased HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress. 1 lot to be tested at 125°C	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.