

## Product Change Notification - KSRA-07LEDG378

**Date:** 25 Jan 2018

**Product Category:** Linear Op Amps; 8-bit PIC Microcontrollers; Interface- Passive-Keyless-Entry Analog Front End; Touch Controllers; Interface- Infrared Products; USB Bridge; Interface- Controller Area Network (CAN); Successive Approximation Register (SAR) A/D Converters; Sigma - Delta A/D Converters; Digital Potentiometers; System D/A Converters; Linear Comparators; Linear Selectable Gain Amplifiers; Linear Programmable Gain Amplifiers; Memory; Power MOSFET Drivers; Interface- LIN Transceiver; Ionization Smoke Detector Front Ends; Piezoelectric Horn Drivers; Charge Pump DC-to-DC Converters

**Notification subject:** CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

**Notification text:** **PCN Status:**  
Final notification

**PCN Type:**  
Manufacturing Change

**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 palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

**Pre Change:**

Using Palladium coated copper wire (PdCu) bond wire

**Post Change:**

Using palladium coated copper with gold flash (CuPdAu) bond wire

**Pre and Post Change Summary:**

	Pre Change	Post Change
<b>Assembly Site</b>	Microchip Technology Thailand (HQ) / MTAI	Microchip Technology Thailand (HQ) / MTAI
<b>Wire material</b>	PdCu Wire	CuPdAu Wire
<b>Die attach material</b>	8390A	8390A
<b>Molding compound material</b>	G600V	G600V
<b>Lead frame material</b>	CDA194	CDA194

**Impacts to Data Sheet:**  
None

**Change Impact:**  
None

**Reason for Change:**  
To improve productivity by qualifying palladium coated copper with gold flash (CuPdAu) bond wire

**Change Implementation Status:**  
In Progress

**Estimated First Ship Date:**  
February 22, 2018 (date code: 1808)

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

**Time Table Summary:**

Workweek	January 2018				February 2018			
	01	02	03	04	05	06	07	08
Qual Report Availability				X				
Final PCN Issue Date				X				
Estimated Implementation Date								X

**Method to Identify Change:**  
Traceability code

**Qualification Report:**  
Please open the attachments included with this PCN labeled as PCN\_#\_Qual Report.

**Revision History:**  
**January 25, 2018:** 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.

**Attachment(s):**

- [PCN\\_KSRA-07LEDG378\\_Affected\\_CPN.pdf](#)
- [PCN\\_KSRA-07LEDG378\\_Qual\\_Report.pdf](#)
- [PCN\\_KSRA-07LEDG378\\_Affected\\_CPN.xlsx](#)



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

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PCN_KSRA-07LEDG378
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HA2089T-I/SL
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MCP2551-I/SNA21
MCP2551T-E/SN
MCP2551T-I/SN
MCP2551T-I/SNA21
PIC12F1822-E/SN
PIC12F1822-E/SN033
PIC12F1822-E/SN041
PIC12F1822-E/SN048
PIC12F1822-E/SNC07
PIC12F1822-I/SN
PIC12F1822-I/SN045
PIC12F1822-I/SNC08
PIC12F1822-I/SNC11
PIC12F1822-I/SNC12
PIC12F1822-I/SNC15
PIC12F1822T-E/SN
PIC12F1822T-E/SN046
PIC12F1822T-E/SN048
PIC12F1822T-E/SNC07
PIC12F1822T-I/SN
PIC12F1822T-I/SN020
PIC12F1822T-I/SN039
PIC12F1822T-I/SN044
PIC12F1822T-I/SN047
PIC12F1822T-I/SN049
PIC12F1822T-I/SNC08
PIC12F1822T-I/SNC09
PIC12F1822T-I/SNC12
PIC12F1822T-I/SNC15
PIC12F617-E/SN
PIC12F617-E/SN020
PIC12F617-E/SN031
PIC12F617-E/SN033
PIC12F617-E/SN034
PIC12F617-I/SN
PIC12F617-I/SN020
PIC12F617-I/SN021
PIC12F617-I/SN030
PIC12F617-I/SN032
PIC12F617-I/SN053
PIC12F617-I/SNAU
PIC12F617-I/SNC15
PIC12F617T-E/SN
PIC12F617T-E/SN020
PIC12F617T-E/SN024
PIC12F617T-E/SN026
PIC12F617T-E/SN027
PIC12F617T-E/SN031
PIC12F617T-E/SN033



PIC12F617T-E/SN034
PIC12F617T-E/SN036
PIC12F617T-E/SN037
PIC12F617T-E/SN050
PIC12F617T-E/SN051
PIC12F617T-E/SN052
PIC12F617T-E/SN055
PIC12F617T-E/SN067
PIC12F617T-E/SN071
PIC12F617T-I/SN
PIC12F617T-I/SN020
PIC12F617T-I/SN021
PIC12F617T-I/SN022
PIC12F617T-I/SN023
PIC12F617T-I/SN025
PIC12F617T-I/SN028
PIC12F617T-I/SN030
PIC12F617T-I/SN032
PIC12F617T-I/SN038
PIC12F617T-I/SN043
PIC12F617T-I/SN044
PIC12F617T-I/SN045
PIC12F617T-I/SN048
PIC12F617T-I/SN053
PIC12F617T-I/SN059
PIC12F617T-I/SNAU
PIC12F617T-I/SNC15
PIC12F675-C/SN
PIC12F675-E/SN
PIC12F675-I/SN
PIC12F675-I/SN102
PIC12F675-I/SN112
PIC12F675-I/SN166
PIC12F675-I/SN172
PIC12F675-I/SN177
PIC12F675-I/SN202
PIC12F675-I/SNC15
PIC12F675T-C/SN
PIC12F675T-E/SN
PIC12F675T-E/SN073
PIC12F675T-E/SN082
PIC12F675T-E/SN091
PIC12F675T-I/SN
PIC12F675T-I/SN026
PIC12F675T-I/SN049
PIC12F675T-I/SN075
PIC12F675T-I/SN079
PIC12F675T-I/SN085
PIC12F675T-I/SN121
PIC12F675T-I/SN131

PIC12F675T-I/SN145
PIC12F675T-I/SN150
PIC12F675T-I/SN152
PIC12F675T-I/SN153
PIC12F675T-I/SN166
PIC12F675T-I/SN172
PIC12F675T-I/SN173
PIC12F675T-I/SN178
PIC12F675T-I/SN179
PIC12F675T-I/SN185
PIC12F675T-I/SN190
PIC12F675T-I/SN191
PIC12F675T-I/SN194
PIC12F675T-I/SN195
PIC12F675T-I/SN199
PIC12F675T-I/SN200
PIC12F675T-I/SN201
PIC12F675T-I/SN202
PIC12F675T-I/SN206
PIC12F675T-I/SN207
PIC12F675T-I/SNC15
RE46C311S8F
RE46C311S8TF
RE46C312S8F
RE46C312S8TF
RE46C317S8F
RE46C317S8TF
RE46C318S8F
RE46C318S8TF
TC1044SCOA
TC1044SCOA713
TC1044SEOA
TC1044SEOA713
TC1410COA
TC1410COA713
TC1410EOA
TC1410EOA713
TC1410NCOA
TC1410NCOA713
TC1410NEOA
TC1410NEOA713
TC1411COA
TC1411COA713
TC1411EOA
TC1411EOA713
TC1411NCOA
TC1411NCOA713
TC1411NEOA
TC1411NEOA713
TC1411NVOA

TC1411NVOA713
TC1411VOA
TC1411VOA713
TC1412COA
TC1412COA713
TC1412EOA
TC1412EOA713
TC1412NCOA
TC1412NCOA713
TC1412NEOA
TC1412NEOA713
TC1413COA
TC1413COA713
TC1413EOA
TC1413EOA713
TC1413NCOA
TC1413NCOA713
TC1413NEOA
TC1413NEOA713
TC1426COA
TC1426COA713
TC1427COA
TC1427COA713
TC1428COA
TC1428COA713
TC426COA
TC426COA713
TC426EOA
TC426EOA713
TC427COA
TC427COA713
TC427EOA
TC427EOA713
TC427VOA
TC427VOA713
TC428COA
TC428COA713
TC428EOA
TC428EOA713
TC428VOA
TC428VOA713
TC429EOA
TC429EOA713
TC4404COA
TC4404COA713
TC4404EOA
TC4404EOA713
TC4405COA
TC4405COA713
TC4405EOA

TC4405EOA713
TC4420COA
TC4420COA713
TC4420EOA
TC4420EOA713
TC4420VOA
TC4420VOA713
TC4421AVOA
TC4421AVOA713
TC4422AVOA
TC4422AVOA713
TC4423AVOA
TC4423AVOA713
TC4424AVOA
TC4424AVOA713
TC4424AVOA713APP
TC4425AVOA
TC4425AVOA713
TC4426ACOA
TC4426ACOA713
TC4426AEOA
TC4426AEOA713
TC4426AVOA
TC4426AVOA713
TC4426COA
TC4426COA713
TC4426COA713CAA
TC4426EOA
TC4426EOA713
TC4426VOA
TC4426VOA713
TC4427ACOA
TC4427ACOA713
TC4427AEOA
TC4427AEOA713
TC4427AEOA713AAA
TC4427AEOAAAA
TC4427AVOA
TC4427AVOA713
TC4427COA
TC4427COA713
TC4427COA713HAZ
TC4427COA723
TC4427EOA
TC4427EOA713
TC4427VOA
TC4427VOA713
TC4428ACOA
TC4428ACOA713
TC4428ACOA713-GTD

TC4428AEOA
TC4428AEOA713
TC4428AVOA
TC4428AVOA713
TC4428COA
TC4428COA713
TC4428COA723
TC4428DCOA
TC4428EOA
TC4428EOA713
TC4428VOA
TC4428VOA713
TC4429COA
TC4429COA713
TC4429EOA
TC4429EOA713
TC4429EOAAAC
TC4429VOA
TC4429VOA713
TC4431COA
TC4431COA713
TC4431EOA
TC4431EOA713
TC4431VOA
TC4431VOA713
TC4432COA
TC4432COA713
TC4432EOA
TC4432EOA713
TC4432VOA
TC4432VOA713
TC4451VOA
TC4451VOA713
TC4452VOA
TC4452VOA713
TC682COA
TC682COA713
TC682EOA
TC682EOA713
TC7660COA
TC7660COA713
TC7660EOA
TC7660EOA713
TC7660EOA723
TC7660HCOA
TC7660HCOA713
TC7660HEOA
TC7660HEOA713
TC7660MEOA
TC7660MEOA713

TC7660SCOA
TC7660SCOA713
TC7660SEOA
TC7660SEOA713
TC7660SEOA713BAA
TC7660SEOA713BAB
TC7660SEOA723
TC7660SVOA
TC7660SVOA713
TC7662BCOA
TC7662BCOA713
TC7662BEOA
TC7662BEOA713

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
HA1086-I/SL
HA1504-I/SL
HA1504T-I/SL
HA2038-I/SL
HA2089-I/SL
HA2089-I/SL108
HA2089-I/SL109
HA2089T-I/SL
HA2089T-I/SL040
HA2089T-I/SL043
HA2089T-I/SL054
HA2089T-I/SL077
HA2089T-I/SL086
HA2089T-I/SL097
HA2089T-I/SL100
HA2089T-I/SL103
HA2089T-I/SL104
HA2089T-I/SL106
HA2089T-I/SL108
HA2089T-I/SL109
HA4923-I/SL
HA4923T-I/SL
HA4986-I/SL
HA4986T-I/SL
MCP2030A-I/SL
MCP2030AT-I/SL
MCP2030-I/SL
MCP2030T-I/SL
MCP2036-I/SL
MCP2036T-I/SL
MCP2120-I/SL
MCP2120T-I/SL
MCP2221A-I/SL
MCP2221AT-I/SL
MCP2221-I/SL
MCP2221T-I/SL
MCP25020-E/SL
MCP25020-I/SL
MCP25020T-E/SL
MCP25020T-I/SL
MCP25025-I/SL
MCP25025T-I/SL
MCP25050-E/SL

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
MCP25050-I/SL
MCP25050T-E/SL
MCP25050T-I/SL
MCP25055-I/SL
MCP25055T-I/SL
MCP3004-I/SL
MCP3004T-I/SL
MCP3204-BI/SL
MCP3204-CI/SL
MCP3204T-BI/SL
MCP3204T-CI/SL
MCP3302-BI/SL
MCP3302-CI/SL
MCP3302T-BI/SL
MCP3302T-CI/SL
MCP3424-E/SL
MCP3424T-E/SL
MCP3428-E/SL
MCP3428T-E/SL
MCP42010-E/SL
MCP42010-I/SL
MCP42010T-E/SL
MCP42010T-I/SL
MCP42050-E/SL
MCP42050-I/SL
MCP42050T-E/SL
MCP42050T-I/SL
MCP42100-E/SL
MCP42100-I/SL
MCP42100T-E/SL
MCP42100T-I/SL
MCP4231-103E/SL
MCP4231-104E/SL
MCP4231-502E/SL
MCP4231-503E/SL
MCP4231T-103E/SL
MCP4231T-104E/SL
MCP4231T-502E/SL
MCP4231T-503E/SL
MCP4241-103E/SL
MCP4241-104E/SL
MCP4241-502E/SL
MCP4241-503E/SL



CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
MCP4241T-103E/SL
MCP4241T-104E/SL
MCP4241T-502E/SL
MCP4241T-503E/SL
MCP4251-103E/SL
MCP4251-104E/SL
MCP4251-502E/SL
MCP4251-503E/SL
MCP4251T-103E/SL
MCP4251T-104E/SL
MCP4251T-502E/SL
MCP4251T-503E/SL
MCP4261-103E/SL
MCP4261-104E/SL
MCP4261-502E/SL
MCP4261-503E/SL
MCP4261T-103E/SL
MCP4261T-104E/SL
MCP4261T-502E/SL
MCP4261T-503E/SL
MCP4902-E/SL
MCP4902T-E/SL
MCP4912-E/SL
MCP4912T-E/SL
MCP4922-E/SL
MCP4922T-E/SL
MCP6004-E/SL
MCP6004-I/SL
MCP6004-I/SLB21
MCP6004T-E/SL
MCP6004T-I/SL
MCP6004T-I/SLB21
MCP6024-E/SL
MCP6024-I/SL
MCP6024T-E/SL
MCP6024T-I/SL
MCP6044-E/SL
MCP6044-E/SLBAA
MCP6044-I/SL
MCP6044T-E/SL
MCP6044T-E/SLBAA
MCP6044T-I/SL
MCP604-E/SL

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
MCP604-I/SL
MCP604T-E/SL
MCP604T-I/SL
MCP609-I/SL
MCP609T-I/SL
MCP6144-E/SL
MCP6144-I/SL
MCP6144T-E/SL
MCP6144T-I/SL
MCP619-I/SL
MCP619-I/SLB21
MCP619T-I/SL
MCP619T-I/SLB21
MCP6234-E/SL
MCP6234T-E/SL
MCP6244-E/SL
MCP6244T-E/SL
MCP6274-E/SL
MCP6274-E/SLB21
MCP6274T-E/SL
MCP6274T-E/SLB21
MCP6284-E/SL
MCP6284-E/SLDAA
MCP6284T-E/SL
MCP6284T-E/SLDAA
MCP6294-E/SL
MCP6294T-E/SL
MCP6404-E/SL
MCP6404-H/SL
MCP6404T-E/SL
MCP6404T-H/SL
MCP6409-H/SL
MCP6409T-H/SL
MCP6424-E/SL
MCP6424T-E/SL
MCP6444-E/SL
MCP6444T-E/SL
MCP6474-E/SL
MCP6474T-E/SL
MCP6484-E/SL
MCP6484T-E/SL
MCP6494-E/SL
MCP6494T-E/SL

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
MCP6544-E/SL
MCP6544-I/SL
MCP6544T-E/SL
MCP6544T-I/SL
MCP6549-E/SL
MCP6549-I/SL
MCP6549T-E/SL
MCP6549T-I/SL
MCP6G04-E/SL
MCP6G04T-E/SL
MCP6L04T-E/SL
MCP6L4T-E/SL
MCP6L74T-E/SL
MCP6L94T-E/SL
MCP6S26-I/SL
MCP6S26T-I/SL
MCV14A-I/SL
MCV14A-I/SL038
MCV14A-I/SL042
MCV14A-I/SL043
MCV14A-I/SL045
MCV14A-I/SL046
MCV14A-I/SL049
MCV14A-I/SL050
MCV14A-I/SL051
MCV14A-I/SL052
MCV14A-I/SL054
MCV14A-I/SL060
MCV14A-I/SL062
MCV14A-I/SL063
MCV14A-I/SL064
MCV14A-I/SL065
MCV14A-I/SL066
MCV14AT-I/SL
MCV14AT-I/SL021
MCV14AT-I/SL025
MCV14AT-I/SL035
MCV14AT-I/SL038
MCV14AT-I/SL042
MCV14AT-I/SL045
MCV14AT-I/SL046
MCV14AT-I/SL049
MCV14AT-I/SL050

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
MCV14AT-I/SL051
MCV14AT-I/SL052
MCV14AT-I/SL054
MCV14AT-I/SL055
MCV14AT-I/SL057
MCV14AT-I/SL058
MCV14AT-I/SL060
MCV14AT-I/SL062
MCV14AT-I/SL063
MCV14AT-I/SL064
MCV14AT-I/SL065
MCV14AT-I/SL066
PIC16C505-04/SL
PIC16C505-04/SLC01
PIC16C505-04E/SL
PIC16C505-04I/SL
PIC16C505-20/SL
PIC16C505-20E/SL
PIC16C505-20I/SL
PIC16C505T-04/SL
PIC16C505T-04/SL098
PIC16C505T-04E/SL
PIC16C505T-04E/SL115
PIC16C505T-04I/SL
PIC16C505T-04I/SL060
PIC16C505T-04I/SL111
PIC16C505T-04I/SL137
PIC16C505T-20/SL
PIC16C505T-20E/SL
PIC16C505T-20I/SL
PIC16F1455-E/SL
PIC16F1455-I/SL
PIC16F1455T-I/SL
PIC16F1503-E/SL
PIC16F1503-I/SL
PIC16F1503-I/SL052
PIC16F1503-I/SL062
PIC16F1503T-E/SL
PIC16F1503T-I/SL
PIC16F1503T-I/SL020
PIC16F1503T-I/SL034
PIC16F1503T-I/SL036
PIC16F1503T-I/SL038

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC16F1503T-I/SL041
PIC16F1503T-I/SL046
PIC16F1503T-I/SL052
PIC16F1503T-I/SL054
PIC16F1503T-I/SL055
PIC16F1503T-I/SL056
PIC16F1503T-I/SL057
PIC16F1503T-I/SL058
PIC16F1503T-I/SL059
PIC16F1503T-I/SL061
PIC16F1503T-I/SL062
PIC16F1574-E/SL
PIC16F1574-I/SL
PIC16F1574T-I/SL
PIC16F1575-E/SL
PIC16F1575-I/SL
PIC16F1575T-E/SL
PIC16F1575T-I/SL
PIC16F1613-E/SL
PIC16F1613-I/SL
PIC16F1613T-I/SL
PIC16F1614-E/SL
PIC16F1614-I/SL
PIC16F1614T-I/SL
PIC16F1615-E/SL
PIC16F1615-I/SL
PIC16F1615T-I/SL
PIC16F1703-E/SL
PIC16F1703-I/SL
PIC16F1703T-I/SL
PIC16F1704-E/SL
PIC16F1704-I/SL
PIC16F1704-I/SLC01
PIC16F1704T-E/SL
PIC16F1704T-I/SL
PIC16F1704T-I/SLC01
PIC16F1705-E/SL
PIC16F1705-I/SL
PIC16F1705-I/SLC01
PIC16F1705T-E/SL
PIC16F1705T-I/SL
PIC16F1705T-I/SLC01
PIC16F1764-E/SL

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC16F1764-I/SL
PIC16F1764T-I/SL
PIC16F1765-E/SL
PIC16F1765-I/SL
PIC16F1765T-I/SL
PIC16F1823-E/SL
PIC16F1823-I/SL
PIC16F1823-I/SL024
PIC16F1823-I/SL037
PIC16F1823T-E/SL
PIC16F1823T-I/SL
PIC16F1823T-I/SL024
PIC16F1823T-I/SL037
PIC16F1823T-I/SL038
PIC16F1823T-I/SL039
PIC16F1824-E/SL
PIC16F1824-I/SL
PIC16F1824-I/SLC09
PIC16F1824T-E/SL
PIC16F1824T-I/SL
PIC16F1824T-I/SL021
PIC16F1824T-I/SL023
PIC16F1824T-I/SL024
PIC16F1824T-I/SL027
PIC16F1824T-I/SL032
PIC16F1824T-I/SLC09
PIC16F1825-E/SL
PIC16F1825-H/SL
PIC16F1825-I/SL
PIC16F1825T-E/SL
PIC16F1825T-H/SL
PIC16F1825T-I/SL
PIC16F1825T-I/SL041
PIC16F505-E/SL
PIC16F505-I/SL
PIC16F505-I/SL023
PIC16F505-I/SL033
PIC16F505-I/SL059
PIC16F505T-E/SL
PIC16F505T-I/SL
PIC16F505T-I/SL020
PIC16F505T-I/SL029
PIC16F505T-I/SL033

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC16F505T-I/SL039
PIC16F505T-I/SL054
PIC16F505T-I/SL055
PIC16F505T-I/SL056
PIC16F505T-I/SL058
PIC16F505T-I/SL059
PIC16F505T-I/SL062
PIC16F505T-I/SLC03
PIC16F506-E/SL
PIC16F506-I/SL
PIC16F506T-I/SL
PIC16F506T-I/SL030
PIC16F506T-I/SL034
PIC16F506T-I/SL039
PIC16F506T-I/SL042
PIC16F506T-I/SL043
PIC16F506T-I/SL044
PIC16F506T-I/SL047
PIC16F506T-I/SL050
PIC16F526-E/SL
PIC16F526-I/SL
PIC16F526T-I/SL
PIC16F526T-I/SL034
PIC16F526T-I/SL053
PIC16F526T-I/SL061
PIC16F526T-I/SLC06
PIC16F610-E/SL
PIC16F610-I/SL
PIC16F610T-I/SL
PIC16F616-E/SL
PIC16F616-E/SL087
PIC16F616-H/SL
PIC16F616-I/SL
PIC16F616T-E/SL
PIC16F616T-E/SL040
PIC16F616T-E/SL072
PIC16F616T-E/SL087
PIC16F616T-I/SL
PIC16F616T-I/SL029
PIC16F616T-I/SL033
PIC16F616T-I/SL038
PIC16F616T-I/SL048
PIC16F616T-I/SL050

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC16F616T-I/SL054
PIC16F616T-I/SL074
PIC16F616T-I/SL077
PIC16F616T-I/SL086
PIC16F616T-I/SL089
PIC16F616T-I/SL091
PIC16F616T-I/SL092
PIC16F616T-I/SL094
PIC16F616T-I/SL095
PIC16F616T-I/SL100
PIC16F630-C/SL
PIC16F630-E/SL
PIC16F630-I/SL
PIC16F630-I/SLC03
PIC16F630T-C/SL
PIC16F630T-E/SL
PIC16F630T-I/SL
PIC16F630T-I/SL035
PIC16F630T-I/SL043
PIC16F630T-I/SL066
PIC16F630T-I/SL082
PIC16F636-E/SL
PIC16F636-I/SL
PIC16F636T-E/SL
PIC16F636T-I/SL
PIC16F636T-I/SL022
PIC16F676-E/SL
PIC16F676-I/SL
PIC16F676-I/SL045
PIC16F676-I/SL050
PIC16F676-I/SL051
PIC16F676T-C/SL
PIC16F676T-E/SL
PIC16F676T-I/SL
PIC16F676T-I/SL038
PIC16F676T-I/SL051
PIC16F684-E/SL
PIC16F684-I/SL
PIC16F684-I/SL105
PIC16F684-I/SLC15
PIC16F684T-E/SL
PIC16F684T-I/SL
PIC16F684T-I/SL027



CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC16F684T-I/SL028
PIC16F684T-I/SL088
PIC16F684T-I/SL091
PIC16F684T-I/SL095
PIC16F684T-I/SL099
PIC16F684T-I/SL105
PIC16F684T-I/SLC15
PIC16F688-E/SL
PIC16F688-I/SL
PIC16F688-I/SL063
PIC16F688T-E/SL
PIC16F688T-E/SL043
PIC16F688T-I/SL
PIC16F688T-I/SL051
PIC16F688T-I/SL053
PIC16F688T-I/SL057
PIC16F688T-I/SL058
PIC16F688T-I/SL063
PIC16F753-E/SL
PIC16F753-I/SL
PIC16F753-I/SLC02
PIC16F753-I/SLPN1
PIC16F753-I/SLSM1
PIC16F753-I/SLSM2
PIC16F753T-I/SL
PIC16F753T-I/SL020
PIC16F753T-I/SLC02
PIC16F753T-I/SLHS2
PIC16F753T-I/SLPN1
PIC16F753T-I/SLSM1
PIC16F753T-I/SLSM2
PIC16HV610-E/SL
PIC16HV610-I/SL
PIC16HV610T-I/SL
PIC16HV616-E/SL
PIC16HV616-I/SL
PIC16HV616T-E/SL
PIC16HV616T-I/SL
PIC16HV753-E/SL
PIC16HV753-I/SL
PIC16HV753T-E/SL
PIC16HV753T-I/SL
PIC16LC505-04/SL

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC16LC505-04I/SL
PIC16LC505T-04/SL
PIC16LC505T-04I/SL
PIC16LF1503-E/SL
PIC16LF1503-E/SLC04
PIC16LF1503-I/SL
PIC16LF1503-I/SL021
PIC16LF1503T-E/SL
PIC16LF1503T-E/SLC04
PIC16LF1503T-I/SL
PIC16LF1503T-I/SL020
PIC16LF1503T-I/SL027
PIC16LF1503T-I/SL028
PIC16LF1554-E/SL
PIC16LF1554-I/SL
PIC16LF1554T-I/SL
PIC16LF1574-E/SL
PIC16LF1574-I/SL
PIC16LF1574T-I/SL
PIC16LF1575-E/SL
PIC16LF1575-I/SL
PIC16LF1575T-I/SL
PIC16LF1613-E/SL
PIC16LF1613-I/SL
PIC16LF1613T-I/SL
PIC16LF1614-E/SL
PIC16LF1614-I/SL
PIC16LF1614T-I/SL
PIC16LF1615-E/SL
PIC16LF1615-I/SL
PIC16LF1615T-I/SL
PIC16LF1703-E/SL
PIC16LF1703-I/SL
PIC16LF1703T-I/SL
PIC16LF1704-E/SL
PIC16LF1704-I/SL
PIC16LF1704-I/SLC01
PIC16LF1704T-I/SL
PIC16LF1704T-I/SLC01
PIC16LF1705-E/SL
PIC16LF1705-I/SL
PIC16LF1705T-I/SL
PIC16LF1764-E/SL

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC16LF1764-I/SL
PIC16LF1764T-I/SL
PIC16LF1765-E/SL
PIC16LF1765-I/SL
PIC16LF1765T-I/SL
PIC16LF1823-E/SL
PIC16LF1823-I/SL
PIC16LF1823-I/SLC03
PIC16LF1823T-E/SL
PIC16LF1823T-I/SL
PIC16LF1823T-I/SL023
PIC16LF1823T-I/SLC03
PIC16LF1824-E/SL
PIC16LF1824-I/SL
PIC16LF1824-I/SLC01
PIC16LF1824T-E/SL
PIC16LF1824T-I/SL
PIC16LF1824T-I/SL026
PIC16LF1824T-I/SL027
PIC16LF1824T-I/SL028
PIC16LF1824T-I/SLC01
PIC16LF1825-E/SL
PIC16LF1825-I/SL
PIC16LF1825T-E/SL
PIC16LF1825T-I/SL
PIC16LF1825T-I/SL020
PIC16LF1825T-I/SL022
93AA86C-I/SN
93AA86CT-I/SN
93LC86C-E/SN
93LC86C-I/SN
93LC86CT-E/SN
93LC86CT-I/SN
HA7600-I/SN
HA7600T-I/SN
MCP1403-E/SN
MCP1403T-E/SN
MCP1404-E/SN
MCP1404T-E/SN
MCP1405-E/SN
MCP1405T-E/SN
MCP1406-E/SN
MCP1406T-E/SN

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
MCP1407-E/SN
MCP1407T-E/SN
MCP14E10-E/SN
MCP14E10T-E/SN
MCP14E11-E/SN
MCP14E11T-E/SN
MCP14E3-E/SN
MCP14E3T-E/SN
MCP14E4-E/SN
MCP14E4T-E/SN
MCP14E5-E/SN
MCP14E5T-E/SN
MCP14E6-E/SN
MCP14E6T-E/SN
MCP14E7-E/SN
MCP14E7T-E/SN
MCP14E8-E/SN
MCP14E8T-E/SN
MCP14E9-E/SN
MCP14E9T-E/SN
MCP2003A-E/SN
MCP2003AT-E/SN
MCP2003-E/SN
MCP2003T-E/SN
MCP2004A-E/SN
MCP2004AT-E/SN
MCP2004-E/SN
MCP2004T-E/SN
MCP2021A-330E/SN
MCP2021A-500E/SN
MCP2021AT-330E/SN
MCP2021AT-330E/SNTSL
MCP2021AT-500E/SN
MCP2021AT-500E/SNTSL
MCP2025-330E/SN
MCP2025-500E/SN
MCP2025T-330E/SN
MCP2025T-500E/SN
MCP2551-E/SN
MCP2551-I/SN
MCP2551-I/SNA21
MCP2551T-E/SN
MCP2551T-I/SN

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
MCP2551T-I/SNA21
PIC12F1822-E/SN
PIC12F1822-E/SN033
PIC12F1822-E/SN041
PIC12F1822-E/SN048
PIC12F1822-E/SNC07
PIC12F1822-I/SN
PIC12F1822-I/SN045
PIC12F1822-I/SNC08
PIC12F1822-I/SNC11
PIC12F1822-I/SNC12
PIC12F1822-I/SNC15
PIC12F1822T-E/SN
PIC12F1822T-E/SN046
PIC12F1822T-E/SN048
PIC12F1822T-E/SNC07
PIC12F1822T-I/SN
PIC12F1822T-I/SN020
PIC12F1822T-I/SN039
PIC12F1822T-I/SN044
PIC12F1822T-I/SN047
PIC12F1822T-I/SN049
PIC12F1822T-I/SNC08
PIC12F1822T-I/SNC09
PIC12F1822T-I/SNC12
PIC12F1822T-I/SNC15
PIC12F617-E/SN
PIC12F617-E/SN020
PIC12F617-E/SN031
PIC12F617-E/SN033
PIC12F617-E/SN034
PIC12F617-I/SN
PIC12F617-I/SN020
PIC12F617-I/SN021
PIC12F617-I/SN030
PIC12F617-I/SN032
PIC12F617-I/SN053
PIC12F617-I/SNAU
PIC12F617-I/SNC15
PIC12F617T-E/SN
PIC12F617T-E/SN020
PIC12F617T-E/SN024
PIC12F617T-E/SN026

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC12F617T-E/SN027
PIC12F617T-E/SN031
PIC12F617T-E/SN033
PIC12F617T-E/SN034
PIC12F617T-E/SN036
PIC12F617T-E/SN037
PIC12F617T-E/SN050
PIC12F617T-E/SN051
PIC12F617T-E/SN052
PIC12F617T-E/SN055
PIC12F617T-E/SN067
PIC12F617T-E/SN071
PIC12F617T-I/SN
PIC12F617T-I/SN020
PIC12F617T-I/SN021
PIC12F617T-I/SN022
PIC12F617T-I/SN023
PIC12F617T-I/SN025
PIC12F617T-I/SN028
PIC12F617T-I/SN030
PIC12F617T-I/SN032
PIC12F617T-I/SN038
PIC12F617T-I/SN043
PIC12F617T-I/SN044
PIC12F617T-I/SN045
PIC12F617T-I/SN048
PIC12F617T-I/SN053
PIC12F617T-I/SN059
PIC12F617T-I/SNAU
PIC12F617T-I/SNC15
PIC12F675-C/SN
PIC12F675-E/SN
PIC12F675-I/SN
PIC12F675-I/SN102
PIC12F675-I/SN112
PIC12F675-I/SN166
PIC12F675-I/SN172
PIC12F675-I/SN177
PIC12F675-I/SN202
PIC12F675-I/SNC15
PIC12F675T-C/SN
PIC12F675T-E/SN
PIC12F675T-E/SN073

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
PIC12F675T-E/SN082
PIC12F675T-E/SN091
PIC12F675T-I/SN
PIC12F675T-I/SN026
PIC12F675T-I/SN049
PIC12F675T-I/SN075
PIC12F675T-I/SN079
PIC12F675T-I/SN085
PIC12F675T-I/SN121
PIC12F675T-I/SN131
PIC12F675T-I/SN145
PIC12F675T-I/SN150
PIC12F675T-I/SN152
PIC12F675T-I/SN153
PIC12F675T-I/SN166
PIC12F675T-I/SN172
PIC12F675T-I/SN173
PIC12F675T-I/SN178
PIC12F675T-I/SN179
PIC12F675T-I/SN185
PIC12F675T-I/SN190
PIC12F675T-I/SN191
PIC12F675T-I/SN194
PIC12F675T-I/SN195
PIC12F675T-I/SN199
PIC12F675T-I/SN200
PIC12F675T-I/SN201
PIC12F675T-I/SN202
PIC12F675T-I/SN206
PIC12F675T-I/SN207
PIC12F675T-I/SNC15
RE46C311S8F
RE46C311S8TF
RE46C312S8F
RE46C312S8TF
RE46C317S8F
RE46C317S8TF
RE46C318S8F
RE46C318S8TF
TC1044SCOA
TC1044SCOA713
TC1044SEOA
TC1044SEOA713

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
TC1410COA
TC1410COA713
TC1410EOA
TC1410EOA713
TC1410NCOA
TC1410NCOA713
TC1410NEOA
TC1410NEOA713
TC1411COA
TC1411COA713
TC1411EOA
TC1411EOA713
TC1411NCOA
TC1411NCOA713
TC1411NEOA
TC1411NEOA713
TC1411NVOA
TC1411NVOA713
TC1411VOA
TC1411VOA713
TC1412COA
TC1412COA713
TC1412EOA
TC1412EOA713
TC1412NCOA
TC1412NCOA713
TC1412NEOA
TC1412NEOA713
TC1413COA
TC1413COA713
TC1413EOA
TC1413EOA713
TC1413NCOA
TC1413NCOA713
TC1413NEOA
TC1413NEOA713
TC1426COA
TC1426COA713
TC1427COA
TC1427COA713
TC1428COA
TC1428COA713
TC426COA



CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
TC426COA713
TC426EOA
TC426EOA713
TC427COA
TC427COA713
TC427EOA
TC427EOA713
TC427VOA
TC427VOA713
TC428COA
TC428COA713
TC428EOA
TC428EOA713
TC428VOA
TC428VOA713
TC429EOA
TC429EOA713
TC4404COA
TC4404COA713
TC4404EOA
TC4404EOA713
TC4405COA
TC4405COA713
TC4405EOA
TC4405EOA713
TC4420COA
TC4420COA713
TC4420EOA
TC4420EOA713
TC4420VOA
TC4420VOA713
TC4421AVOA
TC4421AVOA713
TC4422AVOA
TC4422AVOA713
TC4423AVOA
TC4423AVOA713
TC4424AVOA
TC4424AVOA713
TC4424AVOA713APP
TC4425AVOA
TC4425AVOA713
TC4426ACOA

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
TC4426ACOA713
TC4426AEOA
TC4426AEOA713
TC4426AVOA
TC4426AVOA713
TC4426COA
TC4426COA713
TC4426COA713CAA
TC4426EOA
TC4426EOA713
TC4426VOA
TC4426VOA713
TC4427ACOA
TC4427ACOA713
TC4427AEOA
TC4427AEOA713
TC4427AEOA713AAA
TC4427AEOAAAA
TC4427AVOA
TC4427AVOA713
TC4427COA
TC4427COA713
TC4427COA713HAZ
TC4427COA723
TC4427EOA
TC4427EOA713
TC4427VOA
TC4427VOA713
TC4428ACOA
TC4428ACOA713
TC4428ACOA713-GTD
TC4428AEOA
TC4428AEOA713
TC4428AVOA
TC4428AVOA713
TC4428COA
TC4428COA713
TC4428COA723
TC4428DCOA
TC4428EOA
TC4428EOA713
TC4428VOA
TC4428VOA713

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
TC4429COA
TC4429COA713
TC4429EOA
TC4429EOA713
TC4429EOAAAC
TC4429VOA
TC4429VOA713
TC4431COA
TC4431COA713
TC4431EOA
TC4431EOA713
TC4431VOA
TC4431VOA713
TC4432COA
TC4432COA713
TC4432EOA
TC4432EOA713
TC4432VOA
TC4432VOA713
TC4451VOA
TC4451VOA713
TC4452VOA
TC4452VOA713
TC682COA
TC682COA713
TC682EOA
TC682EOA713
TC7660COA
TC7660COA713
TC7660EOA
TC7660EOA713
TC7660EOA723
TC7660HCOA
TC7660HCOA713
TC7660HEOA
TC7660HEOA713
TC7660MEOA
TC7660MEOA713
TC7660SCOA
TC7660SCOA713
TC7660SEOA
TC7660SEOA713
TC7660SEOA713BAA

CCB 3140 and CCB 3140.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 8L and 14L SOIC package at MTAI assembly site.

Affected Catalog Part Numbers (CPN)

<b>PCN_KSRA-07LEDG378</b>
<b>CATALOG_PART_NBR</b>
TC7660SEOA713BAB
TC7660SEOA723
TC7660SVOA
TC7660SVOA713
TC7662BCOA
TC7662BCOA713
TC7662BEOA
TC7662BEOA713



**MICROCHIP**

**QUALIFICATION REPORT SUMMARY**  
RELIABILITY LABORATORY

**PCN #: KSRA-07LEDG378**

**Date**  
**December 26, 2017**

**Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 14L SOIC package at MTAI assembly site. The selected products available in 8L SOIC package will qualify by similarity (QBS).**



## MICROCHIP PACKAGE QUALIFICATION REPORT SUMMARY

<b>Purpose</b>	Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 14L SOIC package at MTAI assembly site. The selected products available in 8L SOIC package will qualify by similarity (QBS).
<b>CN</b>	ES132789-22812
<b>QUAL ID</b>	Q17185
<b>MP CODE</b>	DE0257D3XB04
<b>Part No.</b>	PIC16F505-I/SL
<b>Bonding No.</b>	BDM-001558 Rev. A
<b>CCB No.</b>	3140 and 3140.001
<b><u>Package</u></b>	
<b>Type</b>	14L SOIC
<b>Package size</b>	150 mils
<b>Die thickness</b>	15 mils
<b>Die size</b>	48.90 x 48.00 mils
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	95 x 155 mils
<b>Material</b>	CDA194
<b>Surface</b>	Bare Cu on DAP
<b>Process</b>	Stamp
<b>Lead Lock</b>	No
<b>Part Number</b>	10101411
<b>Treatment</b>	Roughened
<b><u>Material</u></b>	
<b>Epoxy</b>	8390A
<b>Wire</b>	CuPdAu wire
<b>Mold Compound</b>	G600V
<b>Plating Composition</b>	Matte Tin



# MICROCHIP

## PACKAGE QUALIFICATION REPORT SUMMARY

### Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MTAI182803962.000	TMPE218156303.500	1740WEE
MTAI182804105.000	TMPE218156303.500	17402UT
MTAI182804106.000	TMPE218156303.500	17402VT

### Result

Pass     Fail     \_\_\_\_\_

14L SOIC (.150") assembled by MTAI pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020D standard.

# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS	Result	Remarks
<b>Moisture/Reflow Sensitivity Classification Test (At MSL Level 1)</b>	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243  ( IPC/JEDEC J-STD-020D)	IPC/JEDEC C J-STD- 020D	135	0/135	Pass	

<b>Precondition Prior Perform Reliability Tests (At MSL Level 1)</b>	<b>Electrical Test</b> :+25°C and 85°C System: J750	JESD22- A113	693(0)	693	Pass	Good Devices
	Bake 150°C, 24 hrs System: CHINEE			693		
	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH			693		
	3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243			693		
	<b>Electrical Test</b> :+25°C and 85°C System: J750			0/693		



# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>Temp Cycle</b>	<b>Stress Condition:</b> (Standard) -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H	JESD22- A104		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> + 85°C System: J750		231(0)	0/231	Pass	77 units / lot
	<b>Bond Strength:</b> Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)		15 (0)	0/15	Pass	
			15 (0)	0/15	Pass	
<b>UNBIASED- HAST</b>	<b>Stress Condition:</b> (Standard) +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22- A118		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> +25°C System: J750		231(0)	0/231	Pass	77 units / lot
<b>HAST</b>	<b>Stress Condition:</b> (Standard) +130°C/85%RH, 96 hrs. <b>Bias Volt:</b> 5.5 Volts System: HAST 6000X	JESD22- A110		231		Parts had been pre-conditioned at 260°C
	<b>Electrical Test:</b> + 25°C and 85°C System: J750		231(0)	0/231	Pass	77 units / lot

## PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 175°C, 504 hrs System: SHEL LAB	JESD22- A103		45		45 units
	<b>Electrical Test</b> :+25°C and 85°C System: J750		45(0)	0/45	Pass	
<b>Solderability Temp 215°C</b>	<b>Steam Aging:</b> Temp 93°C,8Hrs System: SAS-3000 Solder Dipping: Solder Temp.215°C Solder material: SnPb Sn63,Pb37 System: ERSA RA 2200D Visual Inspection: External Visual Inspection	JESD22B- 102E	22 (0)	22  22  0/22	Pass	
<b>Solderability Temp 245°C</b>	<b>Steam Aging:</b> Temp 93°C,8Hrs System: SAS-3000 Solder Dipping:Solder Temp.245°C Solder material:Pb Free Sn 95.5Ag3.9 Cu0.6 System: ERSA RA 2200D Visual Inspection: External Visual Inspection	JESD22B- 102E	22 (0)	22  22  0/22	Pass	
<b>Cross section</b>	Cross section Inspection 3 units / lot		9(0)  Wires	0/9	Pass	
<b>Bond Strength Data Assembly</b>	Wire Pull (> 2.5 grams)	M2011	30 (0) Wires	0/30	Pass	
	Bond Shear (>15.00 grams)	JESD22- B116	30 (0) bonds	0/30	Pass	