



Product Change Notification - KSRA-01ZVUK607

Date:

16 Aug 2018

Product Category:

8-bit Microcontrollers; Development Tools; Touch Controllers; 16-Bit - Microcontrollers and Digital Signal Controllers; Interface- Controller Area Network (CAN); Interface- Infrared Products; Interface- Serial Peripherals; Ethernet Controllers

Affected CPNs:**Notification subject:**

CCB 3217 and CCB 3217.001 Final Notice: Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 18L and 28L SOIC package at MTAI assembly site

Notification text:**PCN Status:**

Final notification

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

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 18L and 28L 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
Assembly Site	Microchip Technology Thailand (HQ) / MTAI	Microchip Technology Thailand (HQ) / MTAI
Wire material	PdCu Wire	CuPdAu Wire
Die attach material	3280	3280
Molding compound material	G600V	G600V
Lead frame material	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:



September 16, 2018 (date code: 1838)

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

Time Table Summary:

Workweek	March 2018					  	August 2018					September 2018				
	09	10	11	12	13		31	32	33	34	35	36	37	38	39	40
Initial PCN Issue Date		X														
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:

March 08, 2018: Issued initial notification.

August 16, 2018: Issued final notification. Attached the Qualification Report. Revised the affected parts list. Provided estimated first ship date on September 16, 2018.

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-01ZVUK607_Qual_Report.pdf](#)

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

Terms and Conditions:

If you wish to change your product/process change notification (PCN) profile please log on to our website at <http://www.microchip.com/PCN> sign into myMICROCHIP to open the myMICROCHIP home page, then select a profile option from the left navigation bar.

To opt out of future offer or information emails (other than product change notification emails), click here to go to [microchipDIRECT](#) and login, then click on the "My account" link, click on "Update profile" and un-check the box that states "Future offers or information about Microchip's products or services."

Affected Catalog Part Numbers (CPN)

CF745-04/SO
MCP2140A-I/SO
MCP2140AT-I/SO
MCP2140-I/SO
MCP2140-I/SORVB
MCP2140T-I/SO
MCP2140T-I/SORVB
MCP23008-E/SO
MCP23008T-E/SO
MCP23S08-E/SO
MCP23S08T-E/SO
MCP2515-E/SO
MCP2515-E/SORB2
MCP2515-E/SORB4
MCP2515-I/SO
MCP2515-I/SORB2
MCP2515-I/SORB4
MCP2515T-E/SO
MCP2515T-E/SORB2
MCP2515T-E/SORB4
MCP2515T-I/SO
MCP2515T-I/SORB2
MCP2515T-I/SORB4
MCV18A-I/SO
PIC16C54C-04/SO
PIC16C54C-04/SOC04
PIC16C54C-04E/SO
PIC16C54C-04I/SO
PIC16C54C-20/SO
PIC16C54C-20E/SO
PIC16C54C-20I/SO
PIC16C54C-40/SO
PIC16C54CT-04/SO
PIC16C54CT-04/SO098
PIC16C54CT-04I/SO
PIC16C54CT-04I/SO104
PIC16C54CT-04I/SO158
PIC16C54CT-20/SO
PIC16C54CT-20/SO068
PIC16C56A-04/SO
PIC16C56A-04E/SO
PIC16C56A-04I/SO
PIC16C56A-20/SO
PIC16C56A-20E/SO
PIC16C56A-20I/SO
PIC16C56A-40/SO

PIC16C56AT-04/SO
PIC16C56AT-04/SO027
PIC16C56AT-04I/SO
PIC16C56AT-04I/SO030
PIC16C56AT-04I/SO034
PIC16C56AT-04I/SO040
PIC16C58B-04/SO
PIC16C58B-04E/SO
PIC16C58B-04I/SO
PIC16C58B-20/SO
PIC16C58B-20E/SO
PIC16C58B-20I/SO
PIC16C58B-40/SO
PIC16C58BT-04/SO
PIC16C58BT-04I/SO
PIC16C620A-04/SO
PIC16C620A-04E/SO
PIC16C620A-04I/SO
PIC16C620A-20/SO
PIC16C620A-20E/SO
PIC16C620A-20I/SO
PIC16C620A-40/SO
PIC16C620AT-04/SO
PIC16C620AT-04/SO058
PIC16C620AT-04I/SO
PIC16C620AT-04I/SO076
PIC16C620AT-04I/SO077
PIC16C620AT-20/SO
PIC16C620AT-20I/SO
PIC16C621A-04/SO
PIC16C621A-04E/SO
PIC16C621A-04I/SO
PIC16C621A-20/SO
PIC16C621A-20E/SO
PIC16C621A-20I/SO
PIC16C621A-40/SO
PIC16C621AT-04/SO
PIC16C621AT-04E/SO
PIC16C621AT-04I/SO
PIC16C621AT-04I/SO050
PIC16C621AT-04I/SO081
PIC16C621AT-04I/SO088
PIC16C621AT-20/SO
PIC16C621AT-20I/SO
PIC16C621AT-20I/SO051
PIC16C621AT-20I/SO060
PIC16C621AT-20I/SO086
PIC16C622A-04/SO
PIC16C622A-04E/SO

PIC16C622A-04I/SO
PIC16C622A-20/SO
PIC16C622A-20E/SO
PIC16C622A-20I/SO
PIC16C622A-40/SO
PIC16C622AT-04/SO
PIC16C622AT-04E/SO
PIC16C622AT-04I/SO
PIC16C622AT-04I/SO091
PIC16C622AT-04I/SO092
PIC16C622AT-04I/SO093
PIC16C622AT-04I/SO094
PIC16C622AT-20/SO
PIC16C622AT-20/SOC03
PIC16C622AT-20E/SO
PIC16C622AT-20I/SO
PIC16CR54CT-20/SO012
PIC16CR58BT-04/SO074
PIC16CR620AT-04I/SO020
PIC16F1826-E/SO
PIC16F1826-I/SO
PIC16F1826T-E/SO
PIC16F1826T-I/SO
PIC16F1826T-I/SO027
PIC16F1827-E/SO
PIC16F1827-I/SO
PIC16F1827-I/SOC06
PIC16F1827T-E/SO
PIC16F1827T-I/SO
PIC16F1827T-I/SOC06
PIC16F1847-E/SO
PIC16F1847-I/SO
PIC16F1847-I/SOC02
PIC16F1847T-E/SO
PIC16F1847T-I/SO
PIC16F54-E/SO
PIC16F54-I/SO
PIC16F54-I/SO023
PIC16F54-I/SO043
PIC16F54T-E/SO
PIC16F54T-E/SO040
PIC16F54T-I/SO
PIC16F54T-I/SO028
PIC16F54T-I/SO036
PIC16F54T-I/SO042
PIC16F54T-I/SO043
PIC16F627A-E/SO
PIC16F627A-I/SO
PIC16F627AT-E/SO

PIC16F627AT-I/SO
PIC16F627AT-I/SO034
PIC16F628A-E/SO
PIC16F628A-I/SO
PIC16F628AT-E/SO
PIC16F628AT-I/SO
PIC16F628AT-I/SO051
PIC16F628AT-I/SO052
PIC16F716-E/SO
PIC16F716-I/SO
PIC16F716-I/SO4AP
PIC16F716T-E/SO
PIC16F716T-I/SO
PIC16F716T-I/SO048
PIC16F716T-I/SO061
PIC16LC54C-04/SO
PIC16LC54C-04I/SO
PIC16LC54CT-04/SO150
PIC16LC56A-04/SO
PIC16LC56A-04I/SO
PIC16LC58B-04/SO
PIC16LC58B-04I/SO
PIC16LC620A-04/SO
PIC16LC620A-04I/SO
PIC16LC620AT-04/SO
PIC16LC621A-04/SO
PIC16LC621A-04I/SO
PIC16LC621AT-04/SO
PIC16LC621AT-04I/SO
PIC16LC622A-04/SO
PIC16LC622A-04E/SO
PIC16LC622A-04I/SO
PIC16LC622AT-04/SO
PIC16LC622AT-04I/SO
PIC16LCR58BT-04I/SO053
PIC16LF1826-E/SO
PIC16LF1826-I/SO
PIC16LF1826T-I/SO
PIC16LF1827-E/SO
PIC16LF1827-I/SO
PIC16LF1827T-I/SO
PIC16LF1827T-I/SOC02
PIC16LF1847-E/SO
PIC16LF1847-I/SO
PIC16LF1847T-I/SO
PIC16LF627A-I/SO
PIC16LF627AT-I/SO
PIC16LF628A-I/SO
PIC16LF628AT-I/SO

AP7675/SO
CF775-04/SO
DSPIC30F1010-20E/SO
DSPIC30F1010-30I/SO
DSPIC30F2010-20E/SO
DSPIC30F2010-20I/SO
DSPIC30F2010-30I/SO
DSPIC30F2010T-20E/SO
DSPIC30F2010T-30I/SO
DSPIC30F2020-20E/SO
DSPIC30F2020-30E/SOB34
DSPIC30F2020-30I/SO
DSPIC30F2020T-30E/SOB34
DSPIC30F2020T-30I/SO
DSPIC30F3010-20E/SO
DSPIC30F3010-20I/SO
DSPIC30F3010-30I/SO
DSPIC30F3010T-20I/SO
DSPIC30F3010T-30I/SO
DSPIC30F3013-20E/SO
DSPIC30F3013-20I/SO
DSPIC30F3013-30I/SO
DSPIC30F3013T-30I/SO
DSPIC30F4012-20E/SO
DSPIC30F4012-20I/SO
DSPIC30F4012-30I/SO
DSPIC33FJ06GS102A-I/SO
DSPIC33FJ06GS102-E/SO
DSPIC33FJ06GS102-I/SO
DSPIC33FJ06GS202A-I/SO
DSPIC33FJ06GS202-E/SO
DSPIC33FJ06GS202-I/SO
DSPIC33FJ09GS302-E/SO
DSPIC33FJ09GS302-I/SO
DSPIC33FJ09GS302T-E/SO
DSPIC33FJ128GP202-E/SO
DSPIC33FJ128GP202-I/SO
DSPIC33FJ128GP202T-E/SO
DSPIC33FJ128GP202T-I/SO
DSPIC33FJ128GP802-E/SO
DSPIC33FJ128GP802-I/SO
DSPIC33FJ128GP802T-E/SO
DSPIC33FJ128GP802T-I/SO
DSPIC33FJ128MC202-E/SO
DSPIC33FJ128MC202-I/SO
DSPIC33FJ128MC202T-E/SO
DSPIC33FJ128MC202T-I/SO
DSPIC33FJ128MC802-E/SO
DSPIC33FJ128MC802-H/SO

DSPIC33FJ128MC802-I/SO
DSPIC33FJ128MC802T-E/SO
DSPIC33FJ128MC802T-H/SO
DSPIC33FJ128MC802T-I/SO
DSPIC33FJ12GP202-E/SO
DSPIC33FJ12GP202-I/SO
DSPIC33FJ12GP202T-E/SO
DSPIC33FJ12GP202T-I/SO
DSPIC33FJ12MC202-E/SO
DSPIC33FJ12MC202-E/SO023
DSPIC33FJ12MC202-I/SO
DSPIC33FJ12MC202-I/SOC22
DSPIC33FJ12MC202T-E/SO
DSPIC33FJ12MC202T-E/SO020
DSPIC33FJ12MC202T-E/SO023
DSPIC33FJ12MC202T-I/SO
DSPIC33FJ12MC202T-I/SOC22
DSPIC33FJ16GP102-I/SO
DSPIC33FJ16GP102T-I/SO
DSPIC33FJ16GS402-50I/SO
DSPIC33FJ16GS402-E/SO
DSPIC33FJ16GS402-I/SO
DSPIC33FJ16GS402T-50I/SO
DSPIC33FJ16GS502-50I/SO
DSPIC33FJ16GS502-E/SO
DSPIC33FJ16GS502-H/SO
DSPIC33FJ16GS502-I/SO
DSPIC33FJ16GS502T-50I/SO
DSPIC33FJ16GS502T-E/SO
DSPIC33FJ16GS502T-I/SO
DSPIC33FJ16GS502T-I/SOC01
DSPIC33FJ16MC102-I/SO
DSPIC33FJ16MC102T-I/SO
DSPIC33FJ32GP102-I/SO
DSPIC33FJ32GP202-I/SO
DSPIC33FJ32GP302-E/SO
DSPIC33FJ32GP302-I/SO
DSPIC33FJ32GP302T-E/SO
DSPIC33FJ32GP302T-I/SO
DSPIC33FJ32MC102-E/SO
DSPIC33FJ32MC102-I/SO
DSPIC33FJ32MC202-E/SO
DSPIC33FJ32MC202-H/SO
DSPIC33FJ32MC202-I/SO
DSPIC33FJ32MC202-I/SO022
DSPIC33FJ32MC202-I/SO023
DSPIC33FJ32MC202-I/SOC21
DSPIC33FJ32MC202T-E/SO
DSPIC33FJ32MC202T-E/SOC22

DSPIC33FJ32MC202T-H/SO
DSPIC33FJ32MC202T-I/SO
DSPIC33FJ32MC202T-I/SO021
DSPIC33FJ32MC202T-I/SO023
DSPIC33FJ32MC202T-I/SOC21
DSPIC33FJ32MC302-E/SO
DSPIC33FJ32MC302-I/SO
DSPIC33FJ32MC302T-E/SO
DSPIC33FJ32MC302T-I/SO
DSPIC33FJ64GP202-E/SO
DSPIC33FJ64GP202-I/SO
DSPIC33FJ64GP202T-E/SO
DSPIC33FJ64GP202T-I/SO
DSPIC33FJ64GP802-E/SO
DSPIC33FJ64GP802-H/SO
DSPIC33FJ64GP802-I/SO
DSPIC33FJ64GP802-I/SO031
DSPIC33FJ64GP802-I/SO043
DSPIC33FJ64GP802T-E/SO
DSPIC33FJ64GP802T-H/SO
DSPIC33FJ64GP802T-I/SO
DSPIC33FJ64MC202-E/SO
DSPIC33FJ64MC202-I/SO
DSPIC33FJ64MC202T-E/SO
DSPIC33FJ64MC202T-I/SO
DSPIC33FJ64MC802-E/SO
DSPIC33FJ64MC802-H/SO
DSPIC33FJ64MC802-I/SO
DSPIC33FJ64MC802T-E/SO
DSPIC33FJ64MC802T-H/SO
DSPIC33FJ64MC802T-I/SO
ENC28J60-I/SO
ENC28J60-I/SOC02
ENC28J60-I/SOC04
ENC28J60T-I/SO
ESE0009SIF/E0E42
ESE0009SIF/E0E58
ESE0009SIF/E0E5A
HA1630-I/SO
HA1630T-I/SO
HA1631-I/SO
HA1631T-I/SO
HA3089-I/SO
HA3099/SO
HA4412-I/SO
HA4412T-I/SO
HA4581-I/SO
HA4581T-I/SO
HA4582-I/SO

HCC2-009SIJ/C2C49TR
HCC2-009SIJ/C2C59
HCC2-009SIJ/C2C59TR
HCC2-009SIJ/C2C5D
HCC2-009SIJ/C2C5DTR
HCD0-00ESI/D0C4A
HCD2-00ESI/D2C53
HCD2-00ESI/D2C53TR
HCD2-00ESI/D2C5B
HCD2-00ESI/D2C5BTR
HCD2-00ESI/D2C60
HCD2-00ESI/D2C60TR
HSA0-040SDA/A0SA10
HSA0-040SDA/A0SA10TR
HSA0-040SIA/A0S1F
HSA0-040SIA/A0S1FTR
HSA0-040SIA/A0SS10
HSA0-040SIA/A0SS10TR
HSA0100SD/A0SA0B
HSA0100SI/A0SS0B
HSA0100SI/A0SS0BTR
HSA0100SI/ER1718
HSA0100SI/ER2013
HSA2-040SAA/A2320A
HSA2-040SAA/A2320ATR
HSA2-040SAA/A2323
HSA2-040SAA/A2323TR
HSA2-040SAA/A2324
HSA2-040SAA/A2324TR
HSA2-040SCA/A2320A
HSA2-040SCA/A2324
HSA2-040SCA/A2324TR
HSA2-040SIA/A2S20
HSA2-040SIA/A2S20A
HSA2-040SIA/A2S20ATR
HSA2-040SIA/A2S23
HSA2-040SIA/A2S23TR
HSA2-040SIA/A2S24
HSA2-040SIA/A2S24TR
HSA2-0C0SDA/A2S21
HSA2-0C0SIA/A2S20A
HSA2-0C0SIA/A2S23
HSA2-0C0SIA/A2S24
HSA2-0C0SIA/A2S24TR
HSA2-240SIA/A2S1FA
HSC2-009SIJ/C2S47
HSC2-009SIJ/C2S51
HSC2-009SIJ/C2S51TR
MCP23016-I/SO

MCP23016T-I/SO
MCP23017-E/SO
MCP23017T-E/SO
MCP23018-E/SO
MCP23018T-E/SO
MCP23S17-E/SO
MCP23S17T-E/SO
MCP23S18-E/SO
MCP23S18T-E/SO
MCV28A-I/SO
PIC14000-04/SO
PIC14000-04I/SO
PIC14000-20/SO
PIC14000-20I/SO
PIC14000T-04/SO
PIC14000T-04I/SO
PIC16C55A-04/SO
PIC16C55A-04I/SO
PIC16C55A-20/SO
PIC16C55A-20I/SO
PIC16C55A-40/SO
PIC16C55AT-04/SO
PIC16C55AT-20/SO
PIC16C55AT-20I/SO
PIC16C57C-04/SO
PIC16C57C-04E/SO
PIC16C57C-04I/SO
PIC16C57C-04I/SOC05
PIC16C57C-20/SO
PIC16C57C-20/SO040
PIC16C57C-20E/SO
PIC16C57C-20I/SO
PIC16C57C-40/SO
PIC16C57CT-04/SO
PIC16C57CT-04I/SO
PIC16C57CT-20I/SO
PIC16C62B-04/SO
PIC16C62B-04I/SO
PIC16C62B-20/SO
PIC16C62B-20I/SO
PIC16C62BT-04/SO047
PIC16C62BT-20/SO
PIC16C63-04/SO
PIC16C63-04E/SO
PIC16C63-04I/SO
PIC16C63-10/SO
PIC16C63-20/SO
PIC16C63-20I/SO
PIC16C63A-04/SO

PIC16C63A-04E/SO
PIC16C63A-04I/SO
PIC16C63A-20/SO
PIC16C63A-20E/SO
PIC16C63A-20I/SO
PIC16C63AT-04/SO
PIC16C63AT-04I/SO
PIC16C642-04/SO
PIC16C642-04I/SO
PIC16C642-10/SO
PIC16C642-10I/SO
PIC16C642-20I/SO
PIC16C66-04/SO
PIC16C66-04I/SO
PIC16C66-10/SO
PIC16C66-10I/SO
PIC16C66-20/SO
PIC16C66-20I/SO
PIC16C66T-04I/SO
PIC16C72A-04/SO
PIC16C72A-04E/SO
PIC16C72A-04I/SO
PIC16C72A-04I/SO4AP
PIC16C72A-20/SO
PIC16C72A-20I/SO
PIC16C72AT-04/SO
PIC16C72AT-04/SO091
PIC16C72AT-04I/SO
PIC16C72AT-04I/SO077
PIC16C72AT-20I/SO
PIC16C73A-04/SO
PIC16C73A-04I/SO
PIC16C73A-10/SO
PIC16C73A-10I/SO
PIC16C73A-20/SO
PIC16C73A-20I/SO
PIC16C73AT-04/SO
PIC16C73AT-10/SO
PIC16C73B-04/SO
PIC16C73B-04E/SO
PIC16C73B-04I/SO
PIC16C73B-04I/SO4AP
PIC16C73B-20/SO
PIC16C73B-20E/SO
PIC16C73B-20I/SO
PIC16C73BT-04/SO
PIC16C73BT-20E/SO
PIC16C73BT-20I/SO
PIC16C745-I/SO

PIC16C745T-I/SO
PIC16C76-04/SO
PIC16C76-04I/SO
PIC16C76-10/SO
PIC16C76-10I/SO
PIC16C76-20/SO
PIC16C76-20I/SO
PIC16C76T-04/SO
PIC16F1459-ICE/SO
PIC16F1512-E/SO
PIC16F1512-I/SO
PIC16F1512T-I/SO
PIC16F1513-E/SO
PIC16F1513-I/SO
PIC16F1513T-I/SO
PIC16F1516-E/SO
PIC16F1516-I/SO
PIC16F1516T-I/SO
PIC16F1518-E/SO
PIC16F1518-I/SO
PIC16F1518T-I/SO
PIC16F1713-E/SO
PIC16F1713-I/SO
PIC16F1713T-I/SO
PIC16F1716-E/SO
PIC16F1716-I/SO
PIC16F1716T-I/SO
PIC16F1783-E/SO
PIC16F1783-I/SO
PIC16F1783-I/SOC02
PIC16F1783-I/SOC04
PIC16F1783T-I/SO
PIC16F1783T-I/SOC02
PIC16F1783T-I/SOC04
PIC16F1933-E/SO
PIC16F1933-I/SO
PIC16F1933T-I/SO
PIC16F1936-E/SO
PIC16F1936-E/SOC06
PIC16F1936-I/SO
PIC16F1936-I/SOC04
PIC16F1936T-E/SO
PIC16F1936T-I/SO
PIC16F1936T-I/SO021
PIC16F1936T-I/SO022
PIC16F1936T-I/SO023
PIC16F1936T-I/SO031
PIC16F1936T-I/SO032
PIC16F1936T-I/SOC04

PIC16F1938-E/SO
PIC16F1938-I/SO
PIC16F1938T-I/SO
PIC16F570-E/SO
PIC16F570-I/SO
PIC16F570T-I/SO
PIC16F57-E/SO
PIC16F57-I/SO
PIC16F57T-E/SO
PIC16F57T-I/SO
PIC16F57T-I/SO028
PIC16F722A-E/SO
PIC16F722A-I/SO
PIC16F722AT-I/SO
PIC16F722-E/SO
PIC16F722-I/SO
PIC16F722T-I/SO
PIC16F723A-E/SO
PIC16F723A-I/SO
PIC16F723AT-E/SO
PIC16F723AT-I/SO
PIC16F723-E/SO
PIC16F723-I/SO
PIC16F723T-I/SO
PIC16F726-E/SO
PIC16F726-I/SO
PIC16F726T-E/SO
PIC16F726T-I/SO
PIC16F72-E/SO
PIC16F72-I/SO
PIC16F72-I/SO084
PIC16F72T-E/SO
PIC16F72T-I/SO
PIC16F73-E/SO
PIC16F73-I/SO
PIC16F73-I/SO4AP
PIC16F73T-E/SO
PIC16F73T-I/SO
PIC16F73T-I/SO088
PIC16F73T-I/SO150
PIC16F73T-I/SO165
PIC16F73T-I/SO166
PIC16F76-E/SO
PIC16F76-I/SO
PIC16F76T-I/SO
PIC16F76T-I/SO073
PIC16F870-E/SO
PIC16F870-I/SO
PIC16F870T-I/SO

PIC16F872-E/SO
PIC16F872-I/SO
PIC16F872T-I/SO
PIC16F873-04/SO
PIC16F873-04/SO041
PIC16F873-04E/SO
PIC16F873-04I/SO
PIC16F873-10E/SO
PIC16F873-20/SO
PIC16F873-20/SOV01
PIC16F873-20I/SO
PIC16F873A-E/SO
PIC16F873A-I/SO
PIC16F873AT-I/SO
PIC16F873T-04/SO
PIC16F873T-04I/SO
PIC16F873T-20/SO
PIC16F873T-20/SOV01
PIC16F873T-20I/SO
PIC16F876-04/SO
PIC16F876-04E/SO
PIC16F876-04I/SO
PIC16F876-10E/SO
PIC16F876-20/SO
PIC16F876-20I/SO
PIC16F876A-E/SO
PIC16F876A-I/SO
PIC16F876AT-E/SO
PIC16F876AT-I/SO
PIC16F876T-04/SO
PIC16F876T-04I/SO
PIC16F876T-20/SO
PIC16F876T-20I/SO
PIC16F882-E/SO
PIC16F882-I/SO
PIC16F882-I/SO027
PIC16F882T-I/SO
PIC16F883-E/SO
PIC16F883-I/SO
PIC16F883T-E/SO
PIC16F883T-I/SO
PIC16F886-E/SO
PIC16F886-I/SO
PIC16F886T-I/SO
PIC16F886T-I/SO036
PIC16F913-E/SO
PIC16F913-I/SO
PIC16F913T-I/SO
PIC16F913T-I/SO028

PIC16F916-E/SO
PIC16F916-I/SO
PIC16F916T-I/SO
PIC16LC55A-04/SO
PIC16LC55A-04I/SO
PIC16LC57C-04/SO
PIC16LC57C-04I/SO
PIC16LC62B-04/SO
PIC16LC62B-04I/SO
PIC16LC62BT-04/SO
PIC16LC63-04I/SO
PIC16LC63A-04/SO
PIC16LC63A-04I/SO
PIC16LC63AT-04I/SO
PIC16LC642-04/SO
PIC16LC66-04I/SO
PIC16LC72A-04/SO
PIC16LC72A-04/SO043
PIC16LC72A-04I/SO
PIC16LC72AT-04/SO
PIC16LC73A-04/SO
PIC16LC73A-04I/SO
PIC16LC73B-04/SO
PIC16LC73B-04I/SO
PIC16LC76-04/SO
PIC16LC76-04I/SO
PIC16LF1459-ICE/SO
PIC16LF1512-E/SO
PIC16LF1512-I/SO
PIC16LF1512T-I/SO
PIC16LF1513-E/SO
PIC16LF1513-I/SO
PIC16LF1513T-I/SO
PIC16LF1516-E/SO
PIC16LF1516-I/SO
PIC16LF1516T-I/SO
PIC16LF1518-E/SO
PIC16LF1518-I/SO
PIC16LF1518T-I/SO
PIC16LF1713-E/SO
PIC16LF1713-I/SO
PIC16LF1713T-I/SO
PIC16LF1716-E/SO
PIC16LF1716-I/SO
PIC16LF1716T-I/SO
PIC16LF1902-E/SO
PIC16LF1902-I/SO
PIC16LF1902T-I/SO
PIC16LF1903-E/SO

PIC16LF1903-I/SO
PIC16LF1903T-I/SO
PIC16LF1906-E/SO
PIC16LF1906-I/SO
PIC16LF1906T-I/SO
PIC16LF1933-E/SO
PIC16LF1933-I/SO
PIC16LF1933T-I/SO
PIC16LF1936-E/SO
PIC16LF1936-I/SO
PIC16LF1936T-I/SO
PIC16LF722A-E/SO
PIC16LF722A-I/SO
PIC16LF722AT-I/SO
PIC16LF722-E/SO
PIC16LF722-I/SO
PIC16LF722T-I/SO
PIC16LF723A-E/SO
PIC16LF723A-I/SO
PIC16LF723AT-I/SO
PIC16LF723-E/SO
PIC16LF723-I/SO
PIC16LF723T-I/SO
PIC16LF726-E/SO
PIC16LF726-I/SO
PIC16LF726T-I/SO
PIC16LF72-I/SO
PIC16LF72-I/SO083
PIC16LF72T-I/SO
PIC16LF73-I/SO
PIC16LF73-I/SO157
PIC16LF73T-E/SO
PIC16LF73T-I/SO
PIC16LF73T-I/SO157
PIC16LF73T-I/SOC12
PIC16LF767-I/SO
PIC16LF76-I/SO
PIC16LF76T-I/SO
PIC16LF870-I/SO
PIC16LF870T-I/SO
PIC16LF872-I/SO
PIC16LF872T-I/SO
PIC16LF873-04/SO
PIC16LF873-04I/SO
PIC16LF873A-I/SO
PIC16LF873AT-I/SO
PIC16LF873T-04/SO
PIC16LF873T-04I/SO
PIC16LF876-04/SO

PIC16LF876-04I/SO
PIC16LF876A-I/SO
PIC16LF876AT-I/SO
PIC16LF876T-04/SO
PIC16LF876T-04I/SO
PIC18F2220-E/SO
PIC18F2220-I/SO
PIC18F2220-I/SOC03
PIC18F2220-I/SOV02
PIC18F2220T-I/SO
PIC18F2221-E/SO
PIC18F2221-I/SO
PIC18F2221T-E/SO
PIC18F2221T-I/SO
PIC18F2320-E/SO
PIC18F2320-I/SO
PIC18F2320-I/SOC07
PIC18F2320-I/SOV02
PIC18F2320T-I/SO
PIC18F2321-E/SO
PIC18F2321-I/SO
PIC18F2321T-I/SO
PIC18F2331-E/SO
PIC18F2331-I/SO
PIC18F23K20-E/SO
PIC18F23K20-I/SO
PIC18F23K20T-I/SO
PIC18F23K22-E/SO
PIC18F23K22-I/SO
PIC18F23K22-I/SOV01
PIC18F23K22T-I/SO
PIC18F2410-I/SO
PIC18F2410T-I/SO
PIC18F2420-E/SO
PIC18F2420-E/SO020
PIC18F2420-I/SO
PIC18F2420T-E/SO
PIC18F2420T-E/SO020
PIC18F2420T-I/SO
PIC18F2423-E/SO
PIC18F2423-I/SO
PIC18F2423T-I/SO
PIC18F242-E/SO
PIC18F242-I/SO
PIC18F242T-I/SO
PIC18F2431-E/SO
PIC18F2431-I/SO
PIC18F2431T-I/SO
PIC18F2450-I/SO

PIC18F2450T-I/SO
PIC18F2455-I/SO
PIC18F2455-I/SOHXX
PIC18F2458-I/SO
PIC18F2458T-I/SO
PIC18F2480-E/SO
PIC18F2480-I/SO
PIC18F2480-I/SO020
PIC18F2480T-I/SO
PIC18F24J11-I/SO
PIC18F24J11T-I/SO
PIC18F24K20-E/SO
PIC18F24K20-I/SO
PIC18F24K20-I/SO024
PIC18F24K20-I/SO029
PIC18F24K20-I/SO032
PIC18F24K20T-I/SO
PIC18F24K20T-I/SO024
PIC18F24K20T-I/SO029
PIC18F24K20T-I/SO032
PIC18F24K22-E/SO
PIC18F24K22-I/SO
PIC18F24K22T-I/SO
PIC18F24K50-E/SO
PIC18F24K50-I/SO
PIC18F24K50T-I/SO
PIC18F2510-E/SO
PIC18F2510-I/SO
PIC18F2510T-I/SO
PIC18F2515-I/SO
PIC18F2520-E/SO
PIC18F2520-E/SO032
PIC18F2520-I/SO
PIC18F2520-I/SOC01
PIC18F2520T-E/SO
PIC18F2520T-E/SO032
PIC18F2520T-E/SOC06
PIC18F2520T-I/SO
PIC18F2520T-I/SOC01
PIC18F2520T-I/SOC11
PIC18F2523-E/SO
PIC18F2523-I/SO
PIC18F2523T-I/SO
PIC18F2525-E/SO
PIC18F2525-I/SO
PIC18F2525T-E/SO
PIC18F2525T-I/SO
PIC18F2525T-I/SO025
PIC18F2525T-I/SOC02

PIC18F252-E/SO
PIC18F252-I/SO
PIC18F252T-I/SO
PIC18F2539-I/SO
PIC18F2550-I/SO
PIC18F2553-I/SO
PIC18F2553-I/SOHXX
PIC18F2553T-I/SO
PIC18F2580-E/SO
PIC18F2580-I/SO
PIC18F2580T-I/SO
PIC18F2585-E/SO
PIC18F2585-H/SO
PIC18F2585-I/SO
PIC18F2585T-I/SO
PIC18F25J10-I/SO
PIC18F25J10T-I/SO
PIC18F25J11-I/SO
PIC18F25J11T-I/SO
PIC18F25K20-E/SO
PIC18F25K20-E/SOC12
PIC18F25K20-I/SO
PIC18F25K20-I/SOLPR
PIC18F25K20T-E/SO
PIC18F25K20T-E/SOC12
PIC18F25K20T-I/SO
PIC18F25K22-E/SO
PIC18F25K22-I/SO
PIC18F25K22-I/SOC02
PIC18F25K22T-I/SO
PIC18F25K22T-I/SO020
PIC18F25K22T-I/SOC02
PIC18F25K50-E/SO
PIC18F25K50-I/SO
PIC18F25K50T-I/SO
PIC18F25K80-E/SO
PIC18F25K80-E/SO033
PIC18F25K80-I/SO
PIC18F25K80-I/SOC01
PIC18F25K80-I/SOC03
PIC18F25K80T-E/SO
PIC18F25K80T-E/SO033
PIC18F25K80T-I/SO
PIC18F25K80T-I/SOC01
PIC18F25K80T-I/SOC03
PIC18F2610-I/SO
PIC18F2620-E/SO
PIC18F2620-I/SO
PIC18F2620-I/SOB4

PIC18F2620T-I/SO
PIC18F2680-E/SO
PIC18F2680-H/SO
PIC18F2680-I/SO
PIC18F2680T-I/SO
PIC18F2682-E/SO
PIC18F2682-I/SO
PIC18F2682T-I/SO
PIC18F2685-E/SO
PIC18F2685-I/SO
PIC18F2685-I/SOC01
PIC18F2685T-I/SO
PIC18F2685T-I/SOC01
PIC18F26J11-I/SO
PIC18F26J11T-I/SO
PIC18F26J13-I/SO
PIC18F26J13T-I/SO
PIC18F26J53-I/SO
PIC18F26J53T-I/SO
PIC18F26K20-E/SO
PIC18F26K20-I/SO
PIC18F26K20-I/SO024
PIC18F26K20T-I/SO
PIC18F26K22-E/SO
PIC18F26K22-I/SO
PIC18F26K22-I/SOC02
PIC18F26K22T-I/SO
PIC18F26K22T-I/SO022
PIC18F26K22T-I/SOC02
PIC18F26K80-E/SO
PIC18F26K80-I/SO
PIC18F26K80T-E/SO
PIC18F26K80T-I/SO
PIC18F27J13-I/SO
PIC18F27J13T-I/SO
PIC18F27J53-I/SO
PIC18F27J53T-I/SO
PIC18LF2220-I/SO
PIC18LF2220T-I/SO
PIC18LF2221-I/SO
PIC18LF2320-I/SO
PIC18LF2320-I/SOC08
PIC18LF2320T-I/SO
PIC18LF2321-I/SO
PIC18LF2321T-I/SO
PIC18LF2331-I/SO
PIC18LF2410-I/SO
PIC18LF2420-I/SO
PIC18LF2420T-E/SO

PIC18LF2420T-E/SOC03
PIC18LF2420T-I/SO
PIC18LF2423-I/SO
PIC18LF2423T-I/SO
PIC18LF242-I/SO
PIC18LF242T-I/SO
PIC18LF2431-I/SO
PIC18LF2431T-I/SO
PIC18LF2450-I/SO
PIC18LF2455-I/SO
PIC18LF2458-I/SO
PIC18LF2480-I/SO
PIC18LF2480T-I/SO
PIC18LF24J11-I/SO
PIC18LF24J11T-I/SO
PIC18LF2510-I/SO
PIC18LF2510T-I/SO
PIC18LF2515-I/SO
PIC18LF2515T-I/SO
PIC18LF2520-I/SO
PIC18LF2520T-I/SO
PIC18LF2523-I/SO
PIC18LF2523T-I/SO
PIC18LF2525-I/SO
PIC18LF2525-I/SOC09
PIC18LF2525T-I/SO
PIC18LF2525T-I/SOC09
PIC18LF252-I/SO
PIC18LF252T-I/SO
PIC18LF2539-I/SO
PIC18LF2550-I/SO
PIC18LF2553-I/SO
PIC18LF2553-I/SOHLF
PIC18LF2580-I/SO
PIC18LF2580-I/SOC01
PIC18LF2585-I/SO
PIC18LF2585T-I/SO
PIC18LF25J10-I/SO
PIC18LF25J10T-I/SO
PIC18LF25J11-I/SO
PIC18LF25J11T-I/SO
PIC18LF25K22-E/SO
PIC18LF25K22-I/SO
PIC18LF25K22T-E/SO
PIC18LF25K22T-I/SO
PIC18LF2610-I/SO
PIC18LF2620-I/SO
PIC18LF2620T-I/SO
PIC18LF2680-I/SO

PIC18LF2680T-I/SO
PIC18LF2682-I/SO
PIC18LF2685-I/SO
PIC18LF26J11-I/SO
PIC18LF26J11T-I/SO
PIC18LF26J13-I/SO
PIC18LF26J13T-I/SO
PIC18LF26J53-I/SO
PIC18LF26J53T-I/SO
PIC18LF26K22-E/SO
PIC18LF26K22-I/SO
PIC18LF26K22-I/SOC01
PIC18LF26K22T-E/SO
PIC18LF26K22T-I/SO
PIC18LF26K22T-I/SOC01
PIC18LF27J13-I/SO
PIC18LF27J13T-I/SO
PIC18LF27J53-I/SO
PIC18LF27J53T-I/SO
PIC24F16KA302-E/SO
PIC24F16KA302-I/SO
PIC24F32KA302-E/SO
PIC24F32KA302-I/SO
PIC24F32KA302T-I/SO
PIC24FJ16GA002-E/SO
PIC24FJ16GA002-I/SO
PIC24FJ16GA002T-E/SO
PIC24FJ16GA002T-I/SO
PIC24FJ16MC102-I/SO
PIC24FJ32GA002-E/SO
PIC24FJ32GA002-I/SO
PIC24FJ32GA102-I/SO
PIC24FJ32GA102T-I/SO
PIC24FJ32GB002-I/SO
PIC24FJ32GB002T-I/SO
PIC24FJ32MC102-I/SO
PIC24FJ48GA002-E/SO
PIC24FJ48GA002-I/SO
PIC24FJ64GA002-E/SO
PIC24FJ64GA002-I/SO
PIC24FJ64GA002T-I/SO
PIC24FJ64GA102-I/SO
PIC24FJ64GB002-I/SO
PIC24FJ64GB002T-I/SO
PIC24FV08KM102-I/SO
PIC24FV08KM202-I/SO
PIC24FV16KA302-I/SO
PIC24FV16KA302T-I/SO
PIC24FV16KA302T-I/SOC01

PIC24FV16KM102-I/SO
PIC24FV16KM102T-I/SO
PIC24FV16KM202-E/SO
PIC24FV16KM202-I/SO
PIC24FV16KM202T-I/SO
PIC24FV32KA302-E/SO
PIC24FV32KA302-I/SO
PIC24FV32KA302T-E/SO
PIC24HJ128GP202-E/SO
PIC24HJ128GP202-I/SO
PIC24HJ128GP202T-E/SO
PIC24HJ128GP202T-I/SO
PIC24HJ128GP502-E/SO
PIC24HJ128GP502-H/SO
PIC24HJ128GP502-I/SO
PIC24HJ128GP502T-E/SO
PIC24HJ128GP502T-H/SO
PIC24HJ128GP502T-I/SO
PIC24HJ12GP202-I/SO
PIC24HJ12GP202T-I/SO
PIC24HJ32GP202-E/SO
PIC24HJ32GP202-H/SO
PIC24HJ32GP202-I/SO
PIC24HJ32GP202T-H/SO
PIC24HJ32GP202T-I/SO
PIC24HJ32GP302-E/SO
PIC24HJ32GP302-I/SO
PIC24HJ32GP302T-E/SO
PIC24HJ32GP302T-I/SO
PIC24HJ64GP202-E/SO
PIC24HJ64GP202-I/SO
PIC24HJ64GP202T-E/SO
PIC24HJ64GP202T-I/SO
PIC24HJ64GP502-E/SO
PIC24HJ64GP502-H/SO
PIC24HJ64GP502-I/SO
PIC24HJ64GP502-I/SOA21
PIC24HJ64GP502T-E/SO
PIC24HJ64GP502T-H/SO
PIC24HJ64GP502T-I/SO
PIC24HJ64GP502T-I/SOA21



MICROCHIP

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN#: KSRA-01ZVUK607

Date
August 06, 2018

Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 28L SOIC package at MTAI assembly site. The selected products available in 18L SOIC package will qualify by similarity (QBS).



MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose:	Qualification of palladium coated copper with gold flash (CuPdAu) bond wire in selected products available in 28L SOIC package at MTAI assembly site. The selected products available in 18L SOIC package will qualify by similarity (QBS)
CN	ES199936
QUAL ID	Q18097
MP CODE	LEAE2TN3XB04
Part No.	PIC16F726T-I/SO
Bonding No.	BDM-001818
CCB No.	3227
<u>Package</u>	
Type	28L SOIC
Package size	300 mils
Die thickness	15 mils
Die size	85.0 x 77.9 mils
<u>Lead Frame</u>	
Paddle size	200 x 240 mils
Material	CDA194
Surface	Bare Cu
Process	Stamped
Lead Lock	Yes
Part Number	10102807
Treatment	Brown Oxide Treatment
<u>Material</u>	
Epoxy	3280
Wire	CuPdAu wire
Mold Compound	G600
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MTAI190803756.000	GRSM418271881.700	18211VK
MTAI190804011.000	GRSM418271881.700	182184E
MTAI190804012.000	GRSM418271881.700	1821859

Result

Pass Fail _____

28L SOIC (.300") 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
Moisture/Reflow Sensitivity Classification Test (At MSL Level 1)	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 J-STD-020D	135	0/135	Pass	
<u>Precondition Prior Perform Reliability Tests</u> (At MSL Level 1)	Electrical Test :+25°C,85°C and -40°C System: J750 Bake 150°C, 24 hrs System: CHINEE 85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 265°C max System: Vitronics Soltec MR1243 Electrical Test :+25°C and 85°C System: J750	JESD22-A113	693(0)	693 693 693 0/693	 Pass	Good Devices
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Electrical Test: + 85°C System: J750 Bond Strength: Wire Pull (> 2.5 grams) Bond Shear (>15.00 grams)	JESD22-A104	 231(0) 15 (0) 15 (0)	231 0/231 0/15 0/15	 Pass Pass Pass	Parts had been pre-conditioned at 260°C 77 units / lot
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X Electrical Test: +25°C System: J750	JESD22-A118	 231(0)	231 0/231	 Pass	Parts had been pre-conditioned at 260°C 77 units / lot
HAST	Stress Condition: +130°C/85%RH, 96 hrs. Bias Volt: 5.5 Volts System: HAST 6000X Electrical Test: + 25°C ,85°C System: J750	JESD22-A110	 231(0)	231 0/231	 Pass	Parts had been pre-conditioned at 260°C 77 units / lot

PACKAGE QUALIFICATION REPORT

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: J750		45(0)	0/45	Pass	
Bond Strength Data Assembly	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	