



Date: 03 Nov 2011

Product Category: 16-bit Microcontrollers and Digital Signal Controllers; Analog (Linear & Mixed Signal) AND Interface; Touch Sensing Technologies; RF and Security; 8-bit Microcontrollers; All 16-bit Microcontrollers

Device Family:  

Notification subject: CCB 990.01 Intermediate Notice: Qualification of 18 & 28L SOIC packages with SG-8300GM mold compound at MTAI assembly site.

Notification text:

PCN Status:
Intermediate notification

Microchip Part Numbers Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCN_CYER-22JGDE810_Affected_CPN.xls
PCN_CYER-22JGDE810_Affected_CPN.pdf

Description of Change:
Qualification of 18 & 28L SOIC package with SG-8300GM mold compound at MTAI assembly site.

Pre Change:
G600 for the 28L SOIC and G600V for the 18L SOIC

Post Change:
SG-8300GM

Impacts to Data Sheet:
None

Reason for Change:
To improve productivity

Change Implementation Status:
In Progress

Estimated First Ship Date:
18L SOIC: December 15, 2011 (Date code 1151)
28L SOIC: May 4, 2012 (Date code 1211)

NOTE: Please be advised that during the transition period customers may receive pre and post change parts, due to existing inventory of the pre changed parts.

Markings to Distinguish Revised from Unrevised Devices:
Traceability code

Revision History:
September 23, 2010: Issued the initial notification.
November 3, 2011: Issued the intermediate notification to inform that the 18L SOIC package is qualified. Added attached qualification report for 18L SOIC. Revised estimated first ship date for 18L SOIC and 28L SOIC.

Attachment(s):

[PCN CYER-22JGDE810_Affected_CPN.pdf](#) [PCN CYER-22JGDE810_Qual Report.pdf](#) [PCN CYER-22JGDE810Affected_CPN.xls](#)

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

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Product Change Notification - CYER-22JGDE810

Parts Affected

dsPIC30F1010
dsPIC30F2010
dsPIC30F2011
dsPIC30F2012
dsPIC30F2020
dsPIC30F3010
dsPIC30F3012
dsPIC30F3013
dsPIC30F4012
dsPIC33FJ06GS101
dsPIC33FJ06GS102
dsPIC33FJ06GS202
dsPIC33FJ128GP202
dsPIC33FJ128GP802
dsPIC33FJ128MC202
dsPIC33FJ128MC802
dsPIC33FJ12GP201
dsPIC33FJ12GP202
dsPIC33FJ12MC202
dsPIC33FJ16GS402
dsPIC33FJ16GS502
dsPIC33FJ32GP202
dsPIC33FJ32GP302
dsPIC33FJ32MC202
dsPIC33FJ32MC302
dsPIC33FJ64GP202
dsPIC33FJ64GP802
dsPIC33FJ64MC202
dsPIC33FJ64MC802
ENC28J60
ESE0009SIF/E0E42
ESE0009SIF/E0E58
HCC0-009SIJ-MR01/C0C45
HCC2-009SIJ/C2C49
HCC2109SI/C0SC3B
HCD0-00ESIJ/D0C4A
HCD2-00ESIJ/D2C53
HCS512
HS10-100S0s/10SS25
HSA0-040SDA/A0SA10
HSA0-040SIA/A0S1F
HSA0-040SIA/A0SS10
HSA0100SD/A0SA0B

HSA0100SI/A0SS0B
HSA0100SI/ER1718
HSA0100SI/ER2013
HSA2-040SAA/A2320a
HSA2-040SCA/A2320a
HSA2-040SIA/A2S20
HSA2-040SIA/A2S20a
HSA2-0C0SDA/A2S21
HSA2-0C0SIA/A2S20a
HSA2-240SIA/A2S1FA
HSC2-009SIJ/C2S47
HSC2-009SIJ/C2S51
HSC2-009SIJ/C2S51TR
MCP2140
MCP2140A
MCP2150
MCP2155
MCP23008
MCP23009
MCP23016
MCP23017
MCP23018
MCP23S08
MCP23S09
MCP23S17
MCP23S18
MCP2510
MCP2515
MRC2-009SIJ/C2M52
MRE0009SIJ/E0M4F
MRE0009SIJ/E0M54
PIC14000
PIC16C54
PIC16C54A
PIC16C54C
PIC16C55
PIC16C554
PIC16C558
PIC16C55A
PIC16C56
PIC16C56A
PIC16C57
PIC16C57C
PIC16C58B
PIC16C620

PIC16C620A
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PIC16C621A
PIC16C622
PIC16C622A
PIC16C62A
PIC16C62B
PIC16C63
PIC16C63A
PIC16C642
PIC16C66
PIC16C71
PIC16C710
PIC16C711
PIC16C712
PIC16C715
PIC16C716
PIC16C717
PIC16C72
PIC16C72A
PIC16C73A
PIC16C73B
PIC16C745
PIC16C76
PIC16C773
PIC16CE623
PIC16CE624
PIC16CE625
PIC16CR54A
PIC16CR54C
PIC16CR57C
PIC16CR58B
PIC16CR620A
PIC16CR63
PIC16CR72
PIC16CR83
PIC16F1826
PIC16F1827
PIC16F1933
PIC16F1936
PIC16F1938
PIC16F54
PIC16F57
PIC16F627
PIC16F627A

PIC16F628
PIC16F628A
PIC16F648A
PIC16F716
PIC16F72
PIC16F722
PIC16F722A
PIC16F723
PIC16F723A
PIC16F726
PIC16F73
PIC16F737
PIC16F76
PIC16F767
PIC16F818
PIC16F819
PIC16F83
PIC16F84
PIC16F84A
PIC16F87
PIC16F870
PIC16F872
PIC16F873
PIC16F873A
PIC16F876
PIC16F876A
PIC16F88
PIC16F882
PIC16F883
PIC16F886
PIC16F913
PIC16F916
PIC16HV540
PIC18C242
PIC18C252
PIC18F1220
PIC18F1230
PIC18F1320
PIC18F1330
PIC18F14K22
PIC18F14K50
PIC18F2220
PIC18F2221
PIC18F2320
PIC18F2321

PIC18F2331
PIC18F23K20
PIC18F23K22
PIC18F2410
PIC18F242
PIC18F2420
PIC18F2423
PIC18F2431
PIC18F2450
PIC18F2455
PIC18F2458
PIC18F248
PIC18F2480
PIC18F24J10
PIC18F24J11
PIC18F24J50
PIC18F24K20
PIC18F24K22
PIC18F2510
PIC18F2515
PIC18F252
PIC18F2520
PIC18F2523
PIC18F2525
PIC18F2539
PIC18F2550
PIC18F2553
PIC18F258
PIC18F2580
PIC18F2585
PIC18F25J10
PIC18F25J11
PIC18F25J50
PIC18F25K20
PIC18F25K22
PIC18F2610
PIC18F2620
PIC18F2680
PIC18F2682
PIC18F2685
PIC18F26J11
PIC18F26J13
PIC18F26J50
PIC18F26J53
PIC18F26K20

PIC18F27J13

PIC18F27J53

PIC24F08KA102

PIC24F16KA102

PIC24FJ16GA002

PIC24FJ32GA002

PIC24FJ32GA102

PIC24FJ32GB002

PIC24FJ48GA002

PIC24FJ64GA002

PIC24FJ64GA102

PIC24FJ64GB002

PIC24HJ128GP202

PIC24HJ128GP502

PIC24HJ12GP201

PIC24HJ12GP202

PIC24HJ32GP202

PIC24HJ32GP302

PIC24HJ64GP202

PIC24HJ64GP502

TC514

TC530

PCN_CYER-22JGDE810	
18L SOIC	28L SOIC
CATALOG_PART_NBR	CATALOG_PART_NBR
CF745-04/SO	ABDBFJ16GA002-I/SOV01
DSPIC30F2011-20E/SO	AP7675/SO
DSPIC30F2011-20I/SO	CF775-04/SO
DSPIC30F2011-30I/SO	DSPIC30F1010-20E/SO
DSPIC30F2011T-20E/SO	DSPIC30F1010-30I/SO
DSPIC30F2011T-20I/SO	DSPIC30F1010T-20E/SO
DSPIC30F2011T-30I/SO	DSPIC30F1010T-30I/SO
DSPIC30F3012-20E/SO	DSPIC30F2010-20E/SO
DSPIC30F3012-20I/SO	DSPIC30F2010-20E/SOVAO
DSPIC30F3012-30I/SO	DSPIC30F2010-20I/SO
DSPIC30F3012T-20E/SO	DSPIC30F2010-30I/SO
DSPIC30F3012T-20I/SO	DSPIC30F2010-30I/SOC01
DSPIC30F3012T-30I/SO	DSPIC30F2010T-20E/SO
DSPIC33FJ06GS101-E/SO	DSPIC30F2010T-20E/SOVAO
DSPIC33FJ06GS101-E/SOD21	DSPIC30F2010T-30I/SO
DSPIC33FJ06GS101-I/SO	DSPIC30F2010T-30I/SO037
DSPIC33FJ06GS101T-E/SO	DSPIC30F2010T-30I/SO038
DSPIC33FJ06GS101T-E/SOD21	DSPIC30F2012-20E/SO
DSPIC33FJ06GS101T-I/SO	DSPIC30F2012-20I/SO
DSPIC33FJ12GP201-E/SO	DSPIC30F2012-30I/SO
DSPIC33FJ12GP201-I/SO	DSPIC30F2012T-20E/SO
DSPIC33FJ12GP201T-E/SO	DSPIC30F2012T-30I/SO
DSPIC33FJ12GP201T-I/SO	DSPIC30F2020-20E/SO
DSPIC33FJ12GP201T-I/SO021	DSPIC30F2020-30E/SOB34
DSPIC33FJ16GP101-E/SO	DSPIC30F2020-30I/SO
DSPIC33FJ16GP101-I/SO	DSPIC30F2020T-20E/SO
DSPIC33FJ16GP101T-E/SO	DSPIC30F2020T-30E/SOB34
DSPIC33FJ16GP101T-I/SO	DSPIC30F2020T-30I/SO
HA2525-I/SO	DSPIC30F3010-20E/SO
HA2525T-I/SO	DSPIC30F3010-20I/SO
HCS512/SO	DSPIC30F3010-30I/SO
HCS512-I/SO	DSPIC30F3010T-20E/SO
HCS512T/SO	DSPIC30F3010T-20I/SO
HCS512T-I/SO	DSPIC30F3010T-30I/SO
HCS512T-I/SO027	DSPIC30F3013-20E/SO
HS10-100S0S/10SS25	DSPIC30F3013-20I/SO
MCP2140A-I/SO	DSPIC30F3013-30I/SO
MCP2140AT-I/SO	DSPIC30F3013T-20E/SO
MCP2140-I/SO	DSPIC30F3013T-30I/SO
MCP2140-I/SORVB	DSPIC30F4012-20E/SO
MCP2140T-I/SO	DSPIC30F4012-20E/SOVAO
MCP2140T-I/SORVB	DSPIC30F4012-20I/SO
MCP2150-I/SO	DSPIC30F4012-30I/SO
MCP2150-I/SORVB	DSPIC30F4012T-20E/SO
MCP2150T-I/SO	DSPIC30F4012T-20I/SO
MCP2150T-I/SORVB	DSPIC30F4012T-30I/SO
MCP2150T-I/SORVC	DSPIC30F4012T-30I/SO020
MCP2155-I/SO	DSPIC33EP64GP502-I/SO
MCP2155-I/SORVB	DSPIC33EP64GP502T-I/SO

MCP2155-I/SORVC	DSPIC33EP64MC202-I/SO
MCP2155T-I/SO	DSPIC33EP64MC202T-I/SO
MCP2155T-I/SORVB	DSPIC33EP64MC502-I/SO
MCP2155T-I/SORVC	DSPIC33EP64MC502T-I/SO
MCP23008-E/SO	DSPIC33FJ06GS102-E/SO
MCP23008T-E/SO	DSPIC33FJ06GS102-I/SO
MCP23009-E/SO	DSPIC33FJ06GS102T-E/SO
MCP23009T-E/SO	DSPIC33FJ06GS102T-I/SO
MCP23S08-E/SO	DSPIC33FJ06GS202-E/SO
MCP23S08T-E/SO	DSPIC33FJ06GS202-I/SO
MCP23S09-E/SO	DSPIC33FJ06GS202T-E/SO
MCP23S09T-E/SO	DSPIC33FJ06GS202T-I/SO
MCP2510-E/SO	DSPIC33FJ128GP202-E/SO
MCP2510-I/SO	DSPIC33FJ128GP202-I/SO
MCP2510-I/SOVAO	DSPIC33FJ128GP202T-E/SO
MCP2510T-E/SO	DSPIC33FJ128GP202T-I/SO
MCP2510T-I/SO	DSPIC33FJ128GP802-E/SO
MCP2510T-I/SOA32	DSPIC33FJ128GP802-I/SO
MCP2515-E/SO	DSPIC33FJ128GP802T-E/SO
MCP2515-E/SORB2	DSPIC33FJ128GP802T-I/SO
MCP2515-E/SORB4	DSPIC33FJ128MC202-E/SO
MCP2515-E/SOV05	DSPIC33FJ128MC202-I/SO
MCP2515-I/SO	DSPIC33FJ128MC202T-E/SO
MCP2515-I/SOGRB2	DSPIC33FJ128MC202T-I/SO
MCP2515-I/SOGV02	DSPIC33FJ128MC802-E/SO
MCP2515-I/SORB2	DSPIC33FJ128MC802-H/SO
MCP2515-I/SORB4	DSPIC33FJ128MC802-I/SO
MCP2515-I/SOVAO	DSPIC33FJ128MC802T-E/SO
MCP2515T-E/SO	DSPIC33FJ128MC802T-H/SO
MCP2515T-E/SORB2	DSPIC33FJ128MC802T-I/SO
MCP2515T-E/SORB4	DSPIC33FJ12GP202-E/SO
MCP2515T-I/SO	DSPIC33FJ12GP202-I/SO
MCP2515T-I/SOGV02	DSPIC33FJ12GP202T-E/SO
MCP2515T-I/SORB2	DSPIC33FJ12GP202T-I/SO
MCP2515T-I/SORB4	DSPIC33FJ12MC202-E/SO
MCP2515T-I/SOV02	DSPIC33FJ12MC202-E/SOC22
MCP2515T-I/SOVAO	DSPIC33FJ12MC202-I/SO
MCV18A-I/SO	DSPIC33FJ12MC202-I/SOC22
MCV18E-I/SO	DSPIC33FJ12MC202T-E/SO
MCV18ET-I/SO	DSPIC33FJ12MC202T-E/SO020
PIC16C54-10/SO	DSPIC33FJ12MC202T-E/SOC22
PIC16C54-10I/SO	DSPIC33FJ12MC202T-E/SOV01
PIC16C54A-04/SO	DSPIC33FJ12MC202T-I/SO
PIC16C54A-04E/SO	DSPIC33FJ12MC202T-I/SOC22
PIC16C54A-04I/SO	DSPIC33FJ16GP102-E/SO
PIC16C54A-04I/SOVAO	DSPIC33FJ16GP102-I/SO
PIC16C54A-10/SO	DSPIC33FJ16GP102T-E/SO
PIC16C54A-10E/SO	DSPIC33FJ16GP102T-I/SO
PIC16C54A-10I/SO	DSPIC33FJ16GS402-E/SO
PIC16C54A-20/SO	DSPIC33FJ16GS402-I/SO
PIC16C54A-20I/SO	DSPIC33FJ16GS402T-E/SO
PIC16C54AT-04/SO	DSPIC33FJ16GS402T-I/SO

PIC16C54AT-04/SO048	DSPIC33FJ16GS502-E/SO
PIC16C54AT-04I/SO	DSPIC33FJ16GS502-I/SO
PIC16C54AT-04I/SO068	DSPIC33FJ16GS502T-E/SO
PIC16C54AT-04I/SO071	DSPIC33FJ16GS502T-I/SO
PIC16C54AT-04I/SO093	DSPIC33FJ16MC102-E/SO
PIC16C54AT-04I/SO341	DSPIC33FJ16MC102-I/SO
PIC16C54AT-20/SO	DSPIC33FJ16MC102T-E/SO
PIC16C54AT-20I/SO	DSPIC33FJ16MC102T-I/SO
PIC16C54C-04/SO	DSPIC33FJ32GP202-E/SO
PIC16C54C-04/SOC04	DSPIC33FJ32GP202-I/SO
PIC16C54C-04/SOVAO	DSPIC33FJ32GP202T-E/SO
PIC16C54C-04E/SO	DSPIC33FJ32GP202T-I/SO
PIC16C54C-04I/SO	DSPIC33FJ32GP302-E/SO
PIC16C54C-04I/SOVAO	DSPIC33FJ32GP302-I/SO
PIC16C54C-20/SO	DSPIC33FJ32GP302T-E/SO
PIC16C54C-20E/SO	DSPIC33FJ32GP302T-I/SO
PIC16C54C-20I/SO	DSPIC33FJ32MC202-E/SO
PIC16C54C-20I/SOVAO	DSPIC33FJ32MC202-H/SO
PIC16C54C-40/SO	DSPIC33FJ32MC202-I/SO
PIC16C54CT-04/SO	DSPIC33FJ32MC202-I/SOC21
PIC16C54CT-04/SO098	DSPIC33FJ32MC202T-E/SO
PIC16C54CT-04/SO120	DSPIC33FJ32MC202T-H/SO
PIC16C54CT-04/SO138	DSPIC33FJ32MC202T-I/SO
PIC16C54CT-04I/SO	DSPIC33FJ32MC202T-I/SO021
PIC16C54CT-04I/SO104	DSPIC33FJ32MC202T-I/SOC21
PIC16C54CT-04I/SO122	DSPIC33FJ32MC302-E/SO
PIC16C54CT-04I/SO158	DSPIC33FJ32MC302-I/SO
PIC16C54CT-04I/SO159	DSPIC33FJ32MC302T-E/SO
PIC16C54CT-04I/SOG149	DSPIC33FJ32MC302T-I/SO
PIC16C54CT-20/SO	DSPIC33FJ64GP202-E/SO
PIC16C54CT-20/SO068	DSPIC33FJ64GP202-I/SO
PIC16C54CT-20I/SO105	DSPIC33FJ64GP202T-E/SO
PIC16C54CT-20I/SO157	DSPIC33FJ64GP202T-I/SO
PIC16C54CT-20I/SOVAO	DSPIC33FJ64GP802-E/SO
PIC16C54-HS/SO	DSPIC33FJ64GP802-H/SO
PIC16C54-HSE/SO	DSPIC33FJ64GP802-I/SO
PIC16C54-HSI/SO	DSPIC33FJ64GP802-I/SO031
PIC16C54-LP/SO	DSPIC33FJ64GP802T-E/SO
PIC16C54-LP/SOGVAO	DSPIC33FJ64GP802T-H/SO
PIC16C54-LPI/SO	DSPIC33FJ64GP802T-I/SO
PIC16C54-LPI/SO027	DSPIC33FJ64MC202-E/SO
PIC16C54-RC/SO	DSPIC33FJ64MC202-I/SO
PIC16C54-RC/SO241	DSPIC33FJ64MC202T-E/SO
PIC16C54-RCE/SO	DSPIC33FJ64MC202T-I/SO
PIC16C54-RCI/SO	DSPIC33FJ64MC802-E/SO
PIC16C54T-10/SO	DSPIC33FJ64MC802-H/SO
PIC16C54T-HSI/SO031	DSPIC33FJ64MC802-I/SO
PIC16C54T-LPI/SO026	DSPIC33FJ64MC802T-E/SO
PIC16C54T-RC/SO222	DSPIC33FJ64MC802T-H/SO
PIC16C54T-RCI/SO	DSPIC33FJ64MC802T-I/SO
PIC16C54T-XT/SO	ENC28J60/SOC01
PIC16C54T-XTI/SO	ENC28J60-I/SO

PIC16C54T-XTI/SO302	ENC28J60-I/SOC02
PIC16C54T-XTI/SO318	ENC28J60-I/SOC04
PIC16C54T-XTI/SO319	ENC28J60T/SOC01
PIC16C54-XT/SO	ENC28J60T-I/SO
PIC16C54-XTE/SO	ESE0009SIF/E0E42
PIC16C54-XTE/SOA84	ESE0009SIF/E0E58
PIC16C54-XTI/SO	ESE0009SIF/E0E5A
PIC16C554-04/SO	HA0124-I/SO
PIC16C554-04I/SO	HA0124T-I/SO
PIC16C554-20/SO	HA1047-I/SO
PIC16C554-20I/SO	HA1047T-I/SO
PIC16C554T-04/SO	HA1573T-I/SOC19
PIC16C554T-04I/SO	HA2068-I/SO
PIC16C558-04/SO	HA2068T-I/SO
PIC16C558-04E/SO	HA3078-I/SO
PIC16C558-04I/SO	HA3078T-I/SO
PIC16C558-04I/SO032	HA3089-I/SO
PIC16C558-04I/SOVAO	HA3099/SO
PIC16C558-20/SO	HA4231-I/SO
PIC16C558-20I/SO	HCC0-009SIJ-MR01/C0C45
PIC16C558-20I/SOVAO	HCC2-009SIJ/C2C49TR
PIC16C558T-04/SO	HCC2-009SIJ/C2C59
PIC16C558T-04I/SO	HCC2-009SIJ/C2C59TR
PIC16C558T-04I/SO034	HCC2109SI/C0SC3B
PIC16C558T-20/SO	HCD0-00ESIJ/D0C4A
PIC16C558T-20I/SOVAO	HCD2-00ESIJ/D2C53
PIC16C56-10/SO	HCD2-00ESIJ/D2C53TR
PIC16C56-10I/SO	HCD2-00ESIJ/D2C5B
PIC16C56A-04/SO	HCD2-00ESIJ/D2C5BTR
PIC16C56A-04E/SO	HSA0-040SDA/A0SA10
PIC16C56A-04I/SO	HSA0-040SDA/A0SA10TR
PIC16C56A-04I/SOVAO	HSA0-040SIA/A0S1F
PIC16C56A-20/SO	HSA0-040SIA/A0S1FTR
PIC16C56A-20E/SO	HSA0-040SIA/A0SS10
PIC16C56A-20I/SO	HSA0-040SIA/A0SS10TR
PIC16C56A-40/SO	HSA0100SD/A0SA0B
PIC16C56AT-04/SO	HSA0100SI/A0SS0B
PIC16C56AT-04/SO027	HSA0100SI/A0SS0BTR
PIC16C56AT-04I/SO	HSA0100SI/ER1718
PIC16C56AT-04I/SO030	HSA0100SI/ER2013
PIC16C56AT-04I/SO032	HSA2-040SAA/A2320A
PIC16C56AT-04I/SO034	HSA2-040SAA/A2320ATR
PIC16C56AT-04I/SO038	HSA2-040SCA/A2320A
PIC16C56AT-04I/SO039	HSA2-040SDA/A2S20A
PIC16C56-HS/SO	HSA2-040SIA/A2S20
PIC16C56-HSI/SO	HSA2-040SIA/A2S20A
PIC16C56-LP/SO	HSA2-040SIA/A2S20ATR
PIC16C56-LPE/SO	HSA2-040SIA/A2S23
PIC16C56-LPI/SO	HSA2-040SIA/A2S23TR
PIC16C56-RC/SO	HSA2-0C0SDA/A2S21
PIC16C56-RCI/SO	HSA2-0C0SIA/A2S20A
PIC16C56T-HS/SO	HSA2-0C0SIA/A2S23

PIC16C56T-HSI/SO	HSA2-240SIA/A2S1FA
PIC16C56-XT/SO	HSC2-009SIJ/C2S47
PIC16C56-XTE/SO	HSC2-009SIJ/C2S51
PIC16C56-XTI/SO	HSC2-009SIJ/C2S51TR
PIC16C58B-04/SO	MCP23016-I/SO
PIC16C58B-04E/SO	MCP23016T-I/SO
PIC16C58B-04I/SO	MCP23017-E/SO
PIC16C58B-04I/SO082	MCP23017T-E/SO
PIC16C58B-04I/SOVAO	MCP23018-E/SO
PIC16C58B-20/SO	MCP23018T-E/SO
PIC16C58B-20E/SO	MCP23S17-E/SO
PIC16C58B-20I/SO	MCP23S17T-E/SO
PIC16C58B-40/SO	MCP23S18-E/SO
PIC16C58BT-04/SO	MCP23S18T-E/SO
PIC16C58BT-04I/SO	MCP722B-I/SOV02
PIC16C58BT-04I/SO069	MCV28A-I/SO
PIC16C58BT-04I/SO080	MRC2-009SIJ/C2M52
PIC16C58BT-04I/SO082	MRE0009SIJ/E0M4F
PIC16C58BT-04I/SOVAO	MRE0009SIJ/E0M54
PIC16C58BT-20E/SO057	MTR9657-I/SO
PIC16C58BT-20E/SO064	PIC14000-04/SO
PIC16C58BT-20E/SOG070	PIC14000-04I/SO
PIC16C620-04/SO	PIC14000-20/SO
PIC16C620-04I/SO	PIC14000-20I/SO
PIC16C620-04I/SOVAO	PIC14000T-04/SO
PIC16C620-20/SO	PIC14000T-04I/SO
PIC16C620-20I/SO	PIC16C55-10/SO
PIC16C620A-04/SO	PIC16C55-10I/SO
PIC16C620A-04E/SO	PIC16C55A-04/SO
PIC16C620A-04I/SO	PIC16C55A-04I/SO
PIC16C620A-04I/SOVAO	PIC16C55A-20/SO
PIC16C620A-20/SO	PIC16C55A-20I/SO
PIC16C620A-20E/SO	PIC16C55A-40/SO
PIC16C620A-20I/SO	PIC16C55AT-04/SO
PIC16C620A-20I/SOGVAO	PIC16C55AT-20/SO
PIC16C620A-40/SO	PIC16C55AT-20I/SO
PIC16C620AT-04/SO	PIC16C55-HS/SO
PIC16C620AT-04/SO029	PIC16C55-HSI/SO
PIC16C620AT-04/SO058	PIC16C55-LP/SO
PIC16C620AT-04I/SO	PIC16C55-LPI/SO
PIC16C620AT-04I/SO076	PIC16C55-RC/SO
PIC16C620AT-04I/SO077	PIC16C55-RCI/SO
PIC16C620AT-20/SO	PIC16C55T-HS/SO
PIC16C620AT-20/SOD98	PIC16C55T-XT/SO
PIC16C620AT-20I/SO	PIC16C55-XT/SO
PIC16C620AT-20I/SOGVAO	PIC16C55-XTI/SO
PIC16C620AT-20I/SOVAO	PIC16C57-10/SO
PIC16C620T-04/SO	PIC16C57-10I/SO
PIC16C620T-04I/SO	PIC16C57C-04/SO
PIC16C620T-04I/SOVAO	PIC16C57C-04E/SO
PIC16C620T-20I/SO	PIC16C57C-04I/SO
PIC16C621-04/SO	PIC16C57C-04I/SOC05

PIC16C621-04E/SO	PIC16C57C-20/SO
PIC16C621-04I/SO	PIC16C57C-20/SO040
PIC16C621-20/SO	PIC16C57C-20E/SO
PIC16C621-20I/SO	PIC16C57C-20I/SO
PIC16C621A-04/SO	PIC16C57C-40/SO
PIC16C621A-04E/SO	PIC16C57CT-04/SO
PIC16C621A-04I/SO	PIC16C57CT-04/SO059
PIC16C621A-04I/SOVAO	PIC16C57CT-04I/SO
PIC16C621A-20/SO	PIC16C57CT-20I/SO
PIC16C621A-20E/SO	PIC16C57-HS/SO
PIC16C621A-20I/SO	PIC16C57-HSI/SO
PIC16C621A-40/SO	PIC16C57-LP/SO
PIC16C621AT-04/SO	PIC16C57-LPE/SO
PIC16C621AT-04E/SO	PIC16C57-LPI/SO
PIC16C621AT-04I/SO	PIC16C57-RC/SO
PIC16C621AT-04I/SO050	PIC16C57-RCI/SO
PIC16C621AT-04I/SO055	PIC16C57T-HS/SO
PIC16C621AT-04I/SO061	PIC16C57T-HSI/SO
PIC16C621AT-04I/SO076	PIC16C57T-LPI/SO
PIC16C621AT-04I/SO080	PIC16C57T-LPI/SO235
PIC16C621AT-04I/SO081	PIC16C57T-RC/SO
PIC16C621AT-04I/SOVAO	PIC16C57T-XTI/SO
PIC16C621AT-20/SO	PIC16C57-XT/SO
PIC16C621AT-20I/SO	PIC16C57-XTE/SO
PIC16C621AT-20I/SO051	PIC16C57-XTI/SO
PIC16C621AT-20I/SO060	PIC16C62A-04/SO
PIC16C621AT-20I/SOC01	PIC16C62A-04I/SO
PIC16C621T-04/SO	PIC16C62A-04I/SOVAO
PIC16C621T-04I/SO	PIC16C62A-10/SO
PIC16C621T-04I/SOVAO	PIC16C62A-10I/SO
PIC16C622-04/SO	PIC16C62A-20/SO
PIC16C622-04I/SO	PIC16C62A-20I/SO
PIC16C622-20/SO	PIC16C62AT-04I/SO052
PIC16C622-20E/SO	PIC16C62B-04/SO
PIC16C622-20I/SO	PIC16C62B-04I/SO
PIC16C622A-04/SO	PIC16C62B-04I/SOVAO
PIC16C622A-04/SOVAO	PIC16C62B-20/SO
PIC16C622A-04E/SO	PIC16C62B-20I/SO
PIC16C622A-04E/SOGVAO	PIC16C62BT-04/SO047
PIC16C622A-04I/SO	PIC16C62BT-04I/SOVAO
PIC16C622A-04I/SOGVAO	PIC16C62BT-20/SO
PIC16C622A-04I/SOV01	PIC16C63-04/SO
PIC16C622A-04I/SOVAO	PIC16C63-04E/SO
PIC16C622A-20/SO	PIC16C63-04I/SO
PIC16C622A-20E/SO	PIC16C63-10/SO
PIC16C622A-20I/SO	PIC16C63-20/SO
PIC16C622A-20I/SOGVAO	PIC16C63-20I/SO
PIC16C622A-40/SO	PIC16C63A-04/SO
PIC16C622AT-04/SO	PIC16C63A-04E/SO
PIC16C622AT-04/SO035	PIC16C63A-04I/SO
PIC16C622AT-04/SOVAO	PIC16C63A-20/SO
PIC16C622AT-04E/SO	PIC16C63A-20E/SO

PIC16C622AT-04E/SOGVAO	PIC16C63A-20I/SO
PIC16C622AT-04E/SOVAO	PIC16C63A-20I/SOVAO
PIC16C622AT-04I/SO	PIC16C63AT-04I/SO
PIC16C622AT-04I/SO059	PIC16C63AT-04I/SO
PIC16C622AT-04I/SO064	PIC16C63AT-20I/SO029
PIC16C622AT-04I/SO078	PIC16C63AT-20I/SO030
PIC16C622AT-04I/SO091	PIC16C642-04/SO
PIC16C622AT-04I/SO092	PIC16C642-04I/SO
PIC16C622AT-04I/SO093	PIC16C642-10/SO
PIC16C622AT-04I/SO094	PIC16C642-10I/SO
PIC16C622AT-04I/SOGVAO	PIC16C642-20I/SO
PIC16C622AT-04I/SOV01	PIC16C66-04/SO
PIC16C622AT-04I/SOVAO	PIC16C66-04I/SO
PIC16C622AT-20/SO	PIC16C66-10/SO
PIC16C622AT-20/SOC03	PIC16C66-10I/SO
PIC16C622AT-20E/SO	PIC16C66-20/SO
PIC16C622AT-20E/SOVAO	PIC16C66-20I/SO
PIC16C622AT-20I/SO	PIC16C66T-04I/SO
PIC16C622AT-20I/SOGVAO	PIC16C72-04/SO
PIC16C622AT-20I/SOVAO	PIC16C72-04E/SOVAO
PIC16C622T-04I/SO	PIC16C72-04I/SO
PIC16C622T-20/SO	PIC16C72-04I/SOVAO
PIC16C622T-20I/SO	PIC16C72-10I/SO
PIC16C710-04/SO	PIC16C72-20/SO
PIC16C710-04E/SO	PIC16C72-20E/SO
PIC16C710-04I/SO	PIC16C72A-04/SO
PIC16C710-20/SO	PIC16C72A-04E/SO
PIC16C710-20E/SO	PIC16C72A-04E/SOVAO
PIC16C710-20I/SO	PIC16C72A-04I/SO
PIC16C71-04/SO	PIC16C72A-04I/SO4AP
PIC16C71-04I/SO	PIC16C72A-04I/SOGVAO
PIC16C710T-04/SO	PIC16C72A-04I/SOVAO
PIC16C710T-20I/SO	PIC16C72A-20/SO
PIC16C711-04/SO	PIC16C72A-20I/SO
PIC16C711-04E/SO	PIC16C72AT-04/SO
PIC16C711-04I/SO	PIC16C72AT-04/SO091
PIC16C711-20/SO	PIC16C72AT-04E/SOVAO
PIC16C711-20E/SO	PIC16C72AT-04I/SO
PIC16C711-20I/SO	PIC16C72AT-04I/SO068
PIC16C711-20I/SOVAO	PIC16C72AT-04I/SO069
PIC16C711T-04/SO	PIC16C72AT-04I/SO070
PIC16C711T-04/SO052	PIC16C72AT-04I/SO071
PIC16C711T-04E/SO	PIC16C72AT-04I/SO072
PIC16C711T-04E/SO027	PIC16C72AT-04I/SO077
PIC16C711T-04I/SO	PIC16C72AT-04I/SO089
PIC16C711T-20/SO	PIC16C72AT-04I/SO092
PIC16C711T-20I/SO	PIC16C72AT-04I/SO093
PIC16C71-20/SO	PIC16C72AT-04I/SO094
PIC16C712-04/SO	PIC16C72AT-04I/SOG087
PIC16C712-04E/SO	PIC16C72AT-04I/SOGVAO
PIC16C712-04I/SO	PIC16C72AT-20I/SO
PIC16C712-04I/SOVAO	PIC16C72AT-20I/SO033

PIC16C71-20I/SO	PIC16C72T-04E/SO036
PIC16C712-20/SO	PIC16C72T-04E/SO041
PIC16C712-20E/SO	PIC16C73A-04/SO
PIC16C712-20I/SO	PIC16C73A-04I/SO
PIC16C712T-04/SO	PIC16C73A-10/SO
PIC16C712T-04/SO045	PIC16C73A-10I/SO
PIC16C712T-04E/SO047	PIC16C73A-20/SO
PIC16C715-04/SO	PIC16C73A-20I/SO
PIC16C715-04E/SO	PIC16C73AT-04/SO
PIC16C715-04I/SO	PIC16C73AT-10/SO
PIC16C715-04I/SOVAO	PIC16C73B-04/SO
PIC16C715-20/SO	PIC16C73B-04E/SO
PIC16C715-20E/SO	PIC16C73B-04I/SO
PIC16C715-20E/SOVAO	PIC16C73B-04I/SO4AP
PIC16C715-20I/SO	PIC16C73B-20/SO
PIC16C715T-04/SO	PIC16C73B-20E/SO
PIC16C715T-04I/SO	PIC16C73B-20I/SO
PIC16C715T-20/SO	PIC16C73B-20I/SO054
PIC16C715T-20E/SO	PIC16C73B-20I/SOC82
PIC16C715T-20E/SO034	PIC16C73B-20I/SOVAO
PIC16C715T-20E/SO035	PIC16C73BT-04/SO
PIC16C715T-20I/SO	PIC16C73BT-20E/SO
PIC16C716-04/SO	PIC16C73BT-20E/SO028
PIC16C716-04E/SO	PIC16C73BT-20E/SO036
PIC16C716-04E/SOGVAO	PIC16C73BT-20E/SO042
PIC16C716-04I/SO	PIC16C73BT-20E/SO043
PIC16C716-04I/SOVAO	PIC16C73BT-20I/SO
PIC16C716-20/SO	PIC16C73BT-20I/SO054
PIC16C716-20E/SO	PIC16C745-I/SO
PIC16C716-20E/SOGVAO	PIC16C745T-I/SO
PIC16C716-20E/SOVAO	PIC16C76-04/SO
PIC16C716-20I/SO	PIC16C76-04I/SO
PIC16C716T-04E/SO024	PIC16C76-10/SO
PIC16C716T-04E/SO032	PIC16C76-10I/SO
PIC16C716T-04E/SOGVAO	PIC16C76-20/SO
PIC16C716T-04I/SO	PIC16C76-20I/SO
PIC16C716T-20/SO	PIC16C76T-04/SO
PIC16C716T-20E/SO031	PIC16C76T-20I/SO030
PIC16C716T-20E/SO039	PIC16C773/SO
PIC16C716T-20E/SOG035	PIC16C773-I/SO
PIC16C716T-20E/SOGVAO	PIC16C773T-I/SO
PIC16C716T-20E/SOVAO	PIC16CR57CT-04/SO035
PIC16C716T-20I/SO	PIC16CR57CT-04I/SO045
PIC16C717/SO	PIC16CR57CT-04I/SO051
PIC16C717/SOHXX	PIC16CR57CT-04I/SO052
PIC16C717-E/SO	PIC16CR57CT-20I/SO033
PIC16C717-I/SO	PIC16CR63T-04E/SO067
PIC16C717T/SO	PIC16CR72-20I/SO049
PIC16C717T-I/SO	PIC16CR72T-04E/SO047
PIC16C71T-04/SO	PIC16CR72T-04I/SO022
PIC16C71T-04I/SO	PIC16CR72T-04I/SO038
PIC16CE623-04/SO	PIC16CR72T-04I/SO041

PIC16CE623-04I/SO	PIC16CR72T-04I/SO042
PIC16CE623-20/SO	PIC16CR72T-04I/SO051
PIC16CE623-20I/SO	PIC16CR72T-04I/SO052
PIC16CE624-04/SO	PIC16CR72T-04I/SO067
PIC16CE624-04I/SO	PIC16F1516-E/SO
PIC16CE624-20/SO	PIC16F1516-I/SO
PIC16CE624-20I/SO	PIC16F1516T-I/SO
PIC16CE624T-04/SO	PIC16F1518-E/SO
PIC16CE624T-04I/SO	PIC16F1518-I/SO
PIC16CE624T-04I/SOVAO	PIC16F1518T-I/SO
PIC16CE625-04/SO	PIC16F1933-E/SO
PIC16CE625-04E/SO	PIC16F1933-I/SO
PIC16CE625-04I/SO	PIC16F1933T-E/SO021
PIC16CE625-20/SO	PIC16F1933T-E/SO022
PIC16CE625-20E/SO	PIC16F1933T-I/SO
PIC16CE625-20I/SO	PIC16F1936-E/SO
PIC16CE625T-04/SO	PIC16F1936-E/SOC06
PIC16CE625T-04I/SO	PIC16F1936-I/SO
PIC16CE625T-20I/SO	PIC16F1936-I/SOC04
PIC16CR54AT-04/SO019	PIC16F1936T-I/SO
PIC16CR54C-04I/SO122	PIC16F1936T-I/SO021
PIC16CR54CT-04/SO124	PIC16F1936T-I/SO022
PIC16CR54CT-04I/SO022	PIC16F1936T-I/SO023
PIC16CR54CT-04I/SO110	PIC16F1936T-I/SOC04
PIC16CR54CT-04I/SO112	PIC16F1938-E/SO
PIC16CR54CT-20/SO012	PIC16F1938-I/SO
PIC16CR58B-04/SO056	PIC16F1938T-I/SO
PIC16CR58B-04/SO062	PIC16F57-E/SO
PIC16CR58BT-04/SO074	PIC16F57-I/SO
PIC16CR620AT-04I/SO014	PIC16F57-I/SOC04
PIC16CR620AT-04I/SO016	PIC16F57T-E/SO
PIC16CR620AT-04I/SO017	PIC16F57T-I/SO
PIC16CR620AT-04I/SO020	PIC16F57T-I/SO028
PIC16CR83T-04/SO023	PIC16F722A-E/SO
PIC16F1826-E/SO	PIC16F722A-I/SO
PIC16F1826-I/SO	PIC16F722AT-I/SO
PIC16F1826-I/SOC02	PIC16F722-E/SO
PIC16F1826T-E/SO	PIC16F722-I/SO
PIC16F1826T-I/SO	PIC16F722-I/SOVAO
PIC16F1826T-I/SOC02	PIC16F722T-I/SO
PIC16F1827-E/SO	PIC16F722T-I/SOVAO
PIC16F1827-I/SO	PIC16F723A-E/SO
PIC16F1827T-I/SO	PIC16F723A-I/SO
PIC16F1847-E/SO	PIC16F723AT-I/SO
PIC16F1847-I/SO	PIC16F723-E/SO
PIC16F1847T-I/SO	PIC16F723-I/SO
PIC16F54-E/SO	PIC16F723T-I/SO
PIC16F54-E/SO037	PIC16F726-E/SO
PIC16F54-E/SO038	PIC16F726-I/SO
PIC16F54-I/SO	PIC16F726T-E/SO
PIC16F54-I/SO023	PIC16F726T-I/SO
PIC16F54-I/SO033	PIC16F72-E/SO

PIC16F54-I/SO034	PIC16F72-E/SOC07
PIC16F54-I/SOG	PIC16F72-E/SOVAO
PIC16F54T-E/SO	PIC16F72-I/SO
PIC16F54T-E/SO037	PIC16F72-I/SOG
PIC16F54T-E/SO038	PIC16F72-I/SOV03
PIC16F54T-I/SO	PIC16F72-I/SOVAO
PIC16F54T-I/SO028	PIC16F72T-E/SO
PIC16F54T-I/SO029	PIC16F72T-E/SOC07
PIC16F54T-I/SO033	PIC16F72T-E/SOVAO
PIC16F54T-I/SO034	PIC16F72T-I/SO
PIC16F627-04/SO	PIC16F72T-I/SO040
PIC16F627-04E/SO	PIC16F72T-I/SO043
PIC16F627-04I/SO	PIC16F72T-I/SO054
PIC16F627-20/SO	PIC16F72T-I/SO055
PIC16F627-20E/SO	PIC16F72T-I/SO066
PIC16F627-20I/SO	PIC16F72T-I/SO077
PIC16F627A-E/SO	PIC16F72T-I/SO078
PIC16F627A-I/SO	PIC16F72T-I/SO079
PIC16F627A-I/SOC02	PIC16F72T-I/SOC03
PIC16F627AT-E/SO	PIC16F72T-I/SOG
PIC16F627AT-I/SO	PIC16F72T-I/SOG034
PIC16F627AT-I/SO034	PIC16F72T-I/SOV03
PIC16F627T-04/SO	PIC16F72T-I/SOVAO
PIC16F627T-04I/SO	PIC16F737-E/SO
PIC16F627T-20/SO	PIC16F737-I/SO
PIC16F627T-20I/SO	PIC16F737-I/SOC02
PIC16F628-04/SO	PIC16F737T-E/SO
PIC16F628-04E/SO	PIC16F737T-I/SO
PIC16F628-04I/SO	PIC16F73-E/SO
PIC16F628-04I/SOVAO	PIC16F73-E/SOV04
PIC16F628-20/SO	PIC16F73-I/SO
PIC16F628-20E/SO	PIC16F73-I/SO4AP
PIC16F628-20I/SO	PIC16F73-I/SOC17
PIC16F628A-E/SO	PIC16F73-I/SOGV01
PIC16F628A-I/SO	PIC16F73-I/SOGVAO
PIC16F628A-I/SO063	PIC16F73-I/SOVAO
PIC16F628A-I/SO064	PIC16F73T-E/SO
PIC16F628A-I/SO065	PIC16F73T-E/SO165
PIC16F628A-I/SOG	PIC16F73T-E/SO166
PIC16F628A-I/SOVAO	PIC16F73T-E/SOV02
PIC16F628AT-E/SO	PIC16F73T-E/SOVAO
PIC16F628AT-I/SO	PIC16F73T-I/SO
PIC16F628AT-I/SO037	PIC16F73T-I/SO034
PIC16F628AT-I/SO044	PIC16F73T-I/SO072
PIC16F628AT-I/SO046	PIC16F73T-I/SO086
PIC16F628AT-I/SO048	PIC16F73T-I/SO088
PIC16F628AT-I/SO051	PIC16F73T-I/SO093
PIC16F628AT-I/SO052	PIC16F73T-I/SO117
PIC16F628AT-I/SO063	PIC16F73T-I/SO119
PIC16F628AT-I/SO064	PIC16F73T-I/SO120
PIC16F628AT-I/SO065	PIC16F73T-I/SO122
PIC16F628AT-I/SO070	PIC16F73T-I/SO142

PIC16F628AT-I/SOG	PIC16F73T-I/SO145
PIC16F628AT-I/SOV01	PIC16F73T-I/SO150
PIC16F628AT-I/SOVAO	PIC16F73T-I/SO156
PIC16F628T-04/SO	PIC16F73T-I/SO165
PIC16F628T-04I/SO	PIC16F73T-I/SO166
PIC16F628T-20/SO	PIC16F73T-I/SOC14
PIC16F628T-20I/SO	PIC16F73T-I/SOG
PIC16F648A-E/SO	PIC16F73T-I/SOGV01
PIC16F648A-I/SO	PIC16F73T-I/SOGVAO
PIC16F648A-I/SOC06	PIC16F73T-I/SOVAO
PIC16F648A-I/SOC20	PIC16F767-I/SO
PIC16F648A-I/SOVAO	PIC16F767T-I/SO
PIC16F648AT-E/SO	PIC16F76-E/SO
PIC16F648AT-I/SO	PIC16F76-I/SO
PIC16F648AT-I/SO044	PIC16F76T-E/SO086
PIC16F648AT-I/SO047	PIC16F76T-E/SOVAO
PIC16F648AT-I/SOC12	PIC16F76T-I/SO
PIC16F648AT-I/SOC20	PIC16F76T-I/SO028
PIC16F648AT-I/SOG032	PIC16F76T-I/SO033
PIC16F648AT-I/SOV02	PIC16F76T-I/SO034
PIC16F648AT-I/SOVAO	PIC16F76T-I/SO035
PIC16F716-E/SO	PIC16F76T-I/SO036
PIC16F716-E/SOGVAO	PIC16F76T-I/SO037
PIC16F716-E/SOV01	PIC16F76T-I/SO043
PIC16F716-I/SO	PIC16F76T-I/SO050
PIC16F716-I/SO030	PIC16F76T-I/SO051
PIC16F716-I/SO4AP	PIC16F76T-I/SO052
PIC16F716-I/SOV03	PIC16F76T-I/SO054
PIC16F716-I/SOVAO	PIC16F76T-I/SO073
PIC16F716T-E/SO	PIC16F76T-I/SO082
PIC16F716T-E/SO036	PIC16F76T-I/SO083
PIC16F716T-E/SO038	PIC16F76T-I/SO085
PIC16F716T-E/SO039	PIC16F76T-I/SO088
PIC16F716T-E/SOGVAO	PIC16F76T-I/SO092
PIC16F716T-I/SO	PIC16F76T-I/SO094
PIC16F716T-I/SO021	PIC16F76T-I/SO097
PIC16F716T-I/SO029	PIC16F76T-I/SOVAO
PIC16F716T-I/SO048	PIC16F870-E/SO
PIC16F716T-I/SO061	PIC16F870-I/SO
PIC16F716T-I/SOVAO	PIC16F870T-I/SO
PIC16F818-E/SO	PIC16F872-E/SO
PIC16F818-I/SO	PIC16F872-E/SOVAO
PIC16F818-I/SOTSL	PIC16F872-I/SO
PIC16F818-I/SOTSLVAO	PIC16F872-I/SOG
PIC16F818-I/SOV04	PIC16F872-I/SOVAO
PIC16F818T-E/SO	PIC16F872T-E/SOVAO
PIC16F818T-I/SO	PIC16F872T-I/SO
PIC16F818T-I/SO038	PIC16F872T-I/SO027
PIC16F818T-I/SOTSLVAO	PIC16F872T-I/SO030
PIC16F818T-I/SOV04	PIC16F873-04/SO
PIC16F819-E/SO	PIC16F873-04/SO040
PIC16F819-E/SOVAO	PIC16F873-04E/SO

PIC16F819-I/SO	PIC16F873-04I/SO
PIC16F819-I/SOTSL	PIC16F873-10E/SO
PIC16F819-I/SOTSLVAO	PIC16F873-20/SO
PIC16F819-I/SOV05	PIC16F873-20/SOV01
PIC16F819T-E/SO	PIC16F873-20I/SO
PIC16F819T-E/SOVAO	PIC16F873A-E/SO
PIC16F819T-I/SO	PIC16F873A-I/SO
PIC16F819T-I/SO053	PIC16F873A-I/SOC07
PIC16F819T-I/SOG	PIC16F873A-I/SOVAO
PIC16F819T-I/SOTSL	PIC16F873AT-E/SOV03
PIC16F819T-I/SOTSLVAO	PIC16F873AT-I/SO
PIC16F819T-I/SOV07	PIC16F873AT-I/SO025
PIC16F83-04/SO	PIC16F873AT-I/SO028
PIC16F83-04I/SO	PIC16F873AT-I/SO039
PIC16F84-04/SO	PIC16F873AT-I/SOG
PIC16F84-04I/SO	PIC16F873AT-I/SOVAO
PIC16F84-04I/SOVAO	PIC16F873T-04/SO
PIC16F84-10/SO	PIC16F873T-04I/SO
PIC16F84-10I/SO	PIC16F873T-04I/SOVAO
PIC16F84A-04/SO	PIC16F873T-20/SO
PIC16F84A-04/SO049	PIC16F873T-20/SOV01
PIC16F84A-04I/SO	PIC16F873T-20I/SO
PIC16F84A-04I/SOVAO	PIC16F876-04/SO
PIC16F84A-20/SO	PIC16F876-04E/SO
PIC16F84A-20I/SO	PIC16F876-04E/SOVAO
PIC16F84AT-04/SO	PIC16F876-04I/SO
PIC16F84AT-04I/SO	PIC16F876-10E/SO
PIC16F84AT-20/SO	PIC16F876-20/SO
PIC16F84AT-20I/SO	PIC16F876-20I/SO
PIC16F84T-04/SO	PIC16F876-20I/SOVAO
PIC16F84T-04I/SOVAO	PIC16F876A-E/SO
PIC16F84T-10/SO	PIC16F876A-H/SOVAO
PIC16F87-E/SO	PIC16F876A-I/SO
PIC16F87-I/SO	PIC16F876A-I/SOGVAO
PIC16F87-I/SO040	PIC16F876A-I/SOVAO
PIC16F87-I/SO042	PIC16F876AT-E/SO021
PIC16F87T-E/SO	PIC16F876AT-E/SO040
PIC16F87T-E/SOC06	PIC16F876AT-H/SOVAO
PIC16F87T-I/SO	PIC16F876AT-I/SO
PIC16F87T-I/SO039	PIC16F876AT-I/SO024
PIC16F87T-I/SO042	PIC16F876AT-I/SOC27
PIC16F87T-I/SO049	PIC16F876AT-I/SOC28
PIC16F88-E/SO	PIC16F876AT-I/SOG
PIC16F88-E/SOV01	PIC16F876AT-I/SOGVAO
PIC16F88-E/SOV02	PIC16F876AT-I/SOV02
PIC16F88-I/SO	PIC16F876T-04/SO
PIC16F88-I/SOGVAO	PIC16F876T-04E/SOVAO
PIC16F88-I/SOVAO	PIC16F876T-04I/SO
PIC16F88T-E/SO031	PIC16F876T-20/SO
PIC16F88T-E/SO034	PIC16F876T-20I/SO
PIC16F88T-E/SOV01	PIC16F876T-20I/SOVAO
PIC16F88T-E/SOV02	PIC16F882-E/SO

PIC16F88T-I/SO	PIC16F882-I/SO
PIC16F88T-I/SOGVAO	PIC16F882-I/SO024
PIC16F88T-I/SOVAO	PIC16F882-I/SO027
PIC16HV540-04/SO	PIC16F882-I/SO028
PIC16HV540-04/SO021	PIC16F882-I/SOVAO
PIC16HV540-04I/SO	PIC16F882T-I/SO
PIC16HV540-20/SO	PIC16F882T-I/SO022
PIC16HV540-20I/SO	PIC16F882T-I/SO024
PIC16HV540T-04/SO	PIC16F882T-I/SO027
PIC16LC54A-04/SO	PIC16F882T-I/SO028
PIC16LC54A-04/SO074	PIC16F882T-I/SOVAO
PIC16LC54A-04I/SO	PIC16F883-E/SO
PIC16LC54C-04/SO	PIC16F883-E/SOVAO
PIC16LC54C-04I/SO	PIC16F883-I/SO
PIC16LC54CT-04/SO150	PIC16F883-I/SOVAO
PIC16LC54CT-04/SO152	PIC16F883T-E/SO
PIC16LC54CT-04I/SO160	PIC16F883T-E/SOVAO
PIC16LC554-04/SO	PIC16F883T-I/SO
PIC16LC554-04I/SO	PIC16F883T-I/SOVAO
PIC16LC554T-04/SO	PIC16F886-E/SO
PIC16LC558-04/SO	PIC16F886-E/SOV05
PIC16LC558-04I/SO	PIC16F886-I/SO
PIC16LC558T-04I/SO	PIC16F886-I/SOVAO
PIC16LC56A-04/SO	PIC16F886T-E/SOV05
PIC16LC56A-04I/SO	PIC16F886T-I/SO
PIC16LC58B-04/SO	PIC16F886T-I/SO025
PIC16LC58B-04I/SO	PIC16F886T-I/SO028
PIC16LC620-04/SO	PIC16F886T-I/SO029
PIC16LC620-04/SOC29	PIC16F886T-I/SO032
PIC16LC620-04I/SO	PIC16F886T-I/SO036
PIC16LC620A-04/SO	PIC16F886T-I/SOVAO
PIC16LC620A-04I/SO	PIC16F913-E/SO
PIC16LC620AT-04/SO	PIC16F913-E/SO023
PIC16LC621-04/SO	PIC16F913-I/SO
PIC16LC621-04I/SO	PIC16F913-I/SOV01
PIC16LC621A-04/SO	PIC16F913-I/SOVAO
PIC16LC621A-04I/SO	PIC16F913T-I/SO
PIC16LC621AT-04/SO	PIC16F913T-I/SO024
PIC16LC621AT-04I/SO	PIC16F913T-I/SO028
PIC16LC622-04/SO	PIC16F913T-I/SOVAO
PIC16LC622-04I/SO	PIC16F916-E/SO
PIC16LC622A-04/SO	PIC16F916-I/SO
PIC16LC622A-04E/SO	PIC16F916-I/SOC05
PIC16LC622A-04I/SO	PIC16F916T-I/SO
PIC16LC622AT-04/SO	PIC16LC55A-04/SO
PIC16LC622AT-04I/SO	PIC16LC55A-04I/SO
PIC16LC622T-04/SO	PIC16LC57C-04/SO
PIC16LC622T-04I/SO	PIC16LC57C-04I/SO
PIC16LC710-04/SO	PIC16LC57CT-04I/SO079
PIC16LC710-04I/SO	PIC16LC62A-04/SO
PIC16LC71-04/SO	PIC16LC62A-04I/SO
PIC16LC71-04I/SO	PIC16LC62AT-04I/SO

PIC16LC710T-04/SO	PIC16LC62B-04/SO
PIC16LC711-04/SO	PIC16LC62B-04I/SO
PIC16LC711-04/SO043	PIC16LC62BT-04/SO
PIC16LC711-04/SO053	PIC16LC62BT-04I/SO051
PIC16LC711-04E/SO	PIC16LC63-04I/SO
PIC16LC711-04I/SO	PIC16LC63A-04/SO
PIC16LC711-04I/SO048	PIC16LC63A-04I/SO
PIC16LC711T-04/SO	PIC16LC63AT-04I/SO
PIC16LC711T-04/SO053	PIC16LC642-04/SO
PIC16LC711T-04I/SO	PIC16LC66-04I/SO
PIC16LC712-04/SO	PIC16LC72-04I/SO
PIC16LC712-04I/SO	PIC16LC72A-04/SO
PIC16LC712T-04/SO	PIC16LC72A-04I/SO
PIC16LC715-04/SO	PIC16LC72AT-04/SO
PIC16LC715-04I/SO	PIC16LC72AT-04I/SO088
PIC16LC715T-04I/SO	PIC16LC73A-04/SO
PIC16LC716-04/SO	PIC16LC73A-04I/SO
PIC16LC716-04I/SO	PIC16LC73B-04/SO
PIC16LC716T-04/SO	PIC16LC73B-04I/SO
PIC16LC716T-04I/SO	PIC16LC76-04/SO
PIC16LC717/SO	PIC16LC76-04I/SO
PIC16LC717-E/SO	PIC16LC773/SO
PIC16LC717-I/SO	PIC16LC773-I/SO
PIC16LC717T/SO	PIC16LF1516-E/SO
PIC16LC71T-04I/SO	PIC16LF1516-I/SO
PIC16LCE623-04/SO	PIC16LF1516T-I/SO
PIC16LCE624-04/SO	PIC16LF1518-E/SO
PIC16LCE624-04I/SO	PIC16LF1518-I/SO
PIC16LCE625-04/SO	PIC16LF1518T-I/SO
PIC16LCE625-04I/SO	PIC16LF1902-E/SO
PIC16LCR54A-04/SO081	PIC16LF1902-I/SO
PIC16LCR58BT-04I/SO053	PIC16LF1902T-I/SO
PIC16LCR83T-04I/SO005	PIC16LF1903-E/SO
PIC16LCR83T-04I/SO017	PIC16LF1903-I/SO
PIC16LCR83T-04I/SO019	PIC16LF1903T-I/SO
PIC16LCR83T-04I/SO028	PIC16LF1906-E/SO
PIC16LF1826-E/SO	PIC16LF1906-I/SO
PIC16LF1826-I/SO	PIC16LF1906T-I/SO
PIC16LF1826T-I/SO	PIC16LF1933-E/SO
PIC16LF1827-E/SO	PIC16LF1933-I/SO
PIC16LF1827-I/SO	PIC16LF1933T-I/SO
PIC16LF1827T-I/SO	PIC16LF1933T-I/SOV01
PIC16LF1847-E/SO	PIC16LF1936-E/SO
PIC16LF1847-I/SO	PIC16LF1936-I/SO
PIC16LF1847T-I/SO	PIC16LF1936T-I/SO
PIC16LF627-04/SO	PIC16LF1938-E/SO
PIC16LF627-04I/SO	PIC16LF1938-I/SO
PIC16LF627A-I/SO	PIC16LF1938T-I/SO
PIC16LF627A-I/SOC12	PIC16LF722A-E/SO
PIC16LF627AT-I/SO	PIC16LF722A-I/SO
PIC16LF627AT-I/SOC12	PIC16LF722AT-I/SO
PIC16LF627T-04/SO	PIC16LF722-E/SO

PIC16LF627T-04/SO028	PIC16LF722-I/SO
PIC16LF628-04/SO	PIC16LF722T-I/SO
PIC16LF628-04I/SO	PIC16LF722T-I/SO024
PIC16LF628A-I/SO	PIC16LF723A-E/SO
PIC16LF628AT-I/SO	PIC16LF723A-I/SO
PIC16LF628T-04/SO	PIC16LF723AT-I/SO
PIC16LF628T-04I/SO	PIC16LF723-E/SO
PIC16LF648A-I/SO	PIC16LF723-I/SO
PIC16LF648AT-I/SO	PIC16LF723T-I/SO
PIC16LF648AT-I/SO043	PIC16LF726-E/SO
PIC16LF648AT-I/SO045	PIC16LF726-I/SO
PIC16LF818-I/SO	PIC16LF726T-I/SO
PIC16LF818T-I/SO	PIC16LF72-I/SO
PIC16LF818T-I/SOTSLS	PIC16LF72-I/SO067
PIC16LF819-I/SO	PIC16LF72-I/SOG
PIC16LF819-I/SOC07	PIC16LF72-I/SOGC13
PIC16LF819-I/SOC23	PIC16LF72T-I/SO
PIC16LF819-I/SOG	PIC16LF72T-I/SO042
PIC16LF819-I/SOTSLS	PIC16LF72T-I/SOG
PIC16LF819-I/SOTSLSVAO	PIC16LF72T-I/SOGC13
PIC16LF819T-I/SO	PIC16LF737-I/SO
PIC16LF819T-I/SO043	PIC16LF737T-I/SO
PIC16LF819T-I/SO044	PIC16LF73-I/SO
PIC16LF819T-I/SO045	PIC16LF73-I/SO157
PIC16LF819T-I/SO047	PIC16LF73T-E/SO
PIC16LF819T-I/SO048	PIC16LF73T-I/SO
PIC16LF819T-I/SO050	PIC16LF73T-I/SO157
PIC16LF819T-I/SO052	PIC16LF73T-I/SOC12
PIC16LF819T-I/SO055	PIC16LF767-I/SO
PIC16LF819T-I/SO056	PIC16LF76-I/SO
PIC16LF819T-I/SOC23	PIC16LF76T-I/SO
PIC16LF819T-I/SOTSLSVAO	PIC16LF76T-I/SO087
PIC16LF83-04/SO	PIC16LF870-I/SO
PIC16LF84-04/SO	PIC16LF870T-I/SO
PIC16LF84-04I/SO	PIC16LF872-I/SO
PIC16LF84A-04/SO	PIC16LF872T-I/SO
PIC16LF84A-04I/SO	PIC16LF873-04/SO
PIC16LF84AT-04I/SO	PIC16LF873-04I/SO
PIC16LF84AT-04I/SO025	PIC16LF873A-I/SO
PIC16LF84AT-04I/SO037	PIC16LF873A-I/SOG
PIC16LF84AT-04I/SO038	PIC16LF873AT-I/SO
PIC16LF84AT-04I/SO047	PIC16LF873AT-I/SO046
PIC16LF84AT-04I/SOVAO	PIC16LF873AT-I/SO047
PIC16LF84T-04/SO	PIC16LF873AT-I/SO048
PIC16LF84T-04I/SO	PIC16LF873AT-I/SO049
PIC16LF87-I/SO	PIC16LF873AT-I/SO050
PIC16LF87T-I/SO	PIC16LF873T-04/SO
PIC16LF87T-I/SOVAO	PIC16LF873T-04I/SO
PIC16LF88-I/SO	PIC16LF876-04/SO
PIC16LF88-I/SOG	PIC16LF876-04I/SO
PIC16LF88T-I/SO	PIC16LF876A-I/SO
PIC16LV54A-02/SO	PIC16LF876AT-I/SO

PIC16LV54A-02I/SO	PIC16LF876AT-I/SOG
PIC16LV54A-02I/SO050	PIC16LF876AT-I/SOVAO
PIC16LV54AT-02I/SO	PIC16LF876T-04/SO
PIC16LV54AT-02I/SO050	PIC16LF876T-04I/SO
PIC18F1220-E/SO	PIC16LF876T-04I/SOVAO
PIC18F1220-H/SO	PIC18C242-I/SO
PIC18F1220-I/SO	PIC18C252-I/SO
PIC18F1220T-I/SO	PIC18C252T-I/SO
PIC18F1220T-I/SO021	PIC18F14K22-ICE/SO
PIC18F1230-E/SO	PIC18F14K50-ICE/SO
PIC18F1230-I/SO	PIC18F2220-E/SO
PIC18F1320-E/SO	PIC18F2220-I/SO
PIC18F1320-H/SO	PIC18F2220-I/SOC03
PIC18F1320-I/SO	PIC18F2220-I/SOV02
PIC18F1320-I/SOC04	PIC18F2220T-I/SO
PIC18F1320-I/SOC10	PIC18F2220T-I/SOC01
PIC18F1320T-E/SO	PIC18F2220T-I/SOV02
PIC18F1320T-E/SO024	PIC18F2221-E/SO
PIC18F1320T-E/SOC15	PIC18F2221-I/SO
PIC18F1320T-I/SO	PIC18F2221T-E/SO
PIC18F1320T-I/SOG	PIC18F2221T-I/SO
PIC18F1330-E/SO	PIC18F2320-E/SO
PIC18F1330-I/SO	PIC18F2320-I/SO
PIC18F1330T-I/SO	PIC18F2320-I/SOB3
PIC18LF1220-I/SO	PIC18F2320-I/SOC07
PIC18LF1230-I/SO	PIC18F2320-I/SOV02
PIC18LF1320-I/SO	PIC18F2320-I/SOV03
PIC18LF1320-I/SOG	PIC18F2320-I/SOVAO
PIC18LF1320T-I/SO	PIC18F2320T-I/SO
PIC18LF1330-I/SO	PIC18F2320T-I/SOB3
PIC24HJ12GP201-E/SO	PIC18F2320T-I/SOC1
PIC24HJ12GP201-I/SO	PIC18F2320T-I/SOC2
PIC24HJ12GP201T-E/SO	PIC18F2320T-I/SOV02
PIC24HJ12GP201T-I/SO	PIC18F2320T-I/SOV03
	PIC18F2320T-I/SOVAO
	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
	PIC18F23K22T-I/SO
	PIC18F2410-E/SO
	PIC18F2410-I/SO
	PIC18F2410T-I/SO
	PIC18F2420-E/SO
	PIC18F2420-E/SO020
	PIC18F2420-I/SO

PIC18F2420-I/SO023
PIC18F2420-I/SO024
PIC18F2420-I/SOC01
PIC18F2420-I/SOVAO
PIC18F2420T-E/SO
PIC18F2420T-E/SO020
PIC18F2420T-I/SO
PIC18F2420T-I/SO024
PIC18F2420T-I/SOVAO
PIC18F2423-E/SO
PIC18F2423-I/SO
PIC18F2423T-I/SO
PIC18F242-E/SO
PIC18F242-E/SOVAO
PIC18F242-I/SO
PIC18F242-I/SOV01
PIC18F242-I/SOVAO
PIC18F242T-I/SO
PIC18F242T-I/SOC05
PIC18F242T-I/SOV01
PIC18F2431-E/SO
PIC18F2431-I/SO
PIC18F2431T-I/SO
PIC18F2450-I/SO
PIC18F2450-I/SO203
PIC18F2450T-I/SO
PIC18F2455-I/SO
PIC18F2455-I/SOC01
PIC18F2455-I/SOHXX
PIC18F2455T-I/SO
PIC18F2458-I/SO
PIC18F2458T-I/SO
PIC18F2480-E/SO
PIC18F2480-E/SOVAO
PIC18F2480-I/SO
PIC18F2480-I/SO020
PIC18F2480-I/SOVAO
PIC18F2480T-E/SOV04
PIC18F2480T-E/SOVAO
PIC18F2480T-I/SO
PIC18F2480T-I/SOV01
PIC18F2480T-I/SOVAO
PIC18F248-E/SO
PIC18F248-I/SO
PIC18F248T-I/SO
PIC18F24J10-I/SO
PIC18F24J10T-I/SO
PIC18F24J11-I/SO
PIC18F24J11T-I/SO
PIC18F24J50-I/SO
PIC18F24J50T-I/SO
PIC18F24K20-E/SO

PIC18F24K20-I/SO
PIC18F24K20-I/SO024
PIC18F24K20-I/SO025
PIC18F24K20-I/SO029
PIC18F24K20-I/SO032
PIC18F24K20-I/SOLPR
PIC18F24K20T-I/SO
PIC18F24K20T-I/SO032
PIC18F24K20T-I/SOLPR
PIC18F24K22-E/SO
PIC18F24K22-I/SO
PIC18F24K22T-I/SO
PIC18F2510-E/SO
PIC18F2510-I/SO
PIC18F2510T-I/SO
PIC18F2510T-I/SO021
PIC18F2515-I/SO
PIC18F2520-E/SO
PIC18F2520-E/SO032
PIC18F2520-I/SO
PIC18F2520-I/SOB3
PIC18F2520-I/SOC01
PIC18F2520T-E/SO
PIC18F2520T-E/SO021
PIC18F2520T-E/SO032
PIC18F2520T-E/SO043
PIC18F2520T-E/SOC06
PIC18F2520T-I/SO
PIC18F2520T-I/SO026
PIC18F2520T-I/SO027
PIC18F2520T-I/SO028
PIC18F2520T-I/SO029
PIC18F2520T-I/SO037
PIC18F2520T-I/SO038
PIC18F2520T-I/SO040
PIC18F2520T-I/SO044
PIC18F2520T-I/SO045
PIC18F2520T-I/SO046
PIC18F2520T-I/SO055
PIC18F2520T-I/SOB3
PIC18F2520T-I/SOC01
PIC18F2520T-I/SOC11
PIC18F2520T-I/SOV07
PIC18F2523-E/SO
PIC18F2523-I/SO
PIC18F2523-I/SOB3
PIC18F2523T-I/SO
PIC18F2523T-I/SOB3
PIC18F2525-E/SO
PIC18F2525-I/SO
PIC18F2525T-E/SO
PIC18F2525T-E/SOC03

PIC18F2525T-I/SO
PIC18F2525T-I/SO024
PIC18F2525T-I/SO025
PIC18F2525T-I/SOC02
PIC18F2525T-I/SOV01
PIC18F252-E/SO
PIC18F252-I/SO
PIC18F252-I/SOVAO
PIC18F252T-I/SO
PIC18F252T-I/SO024
PIC18F252T-I/SO027
PIC18F252T-I/SO028
PIC18F252T-I/SO036
PIC18F252T-I/SO040
PIC18F252T-I/SO042
PIC18F252T-I/SO046
PIC18F252T-I/SO048
PIC18F252T-I/SO049
PIC18F252T-I/SOV01
PIC18F252T-I/SOVAO
PIC18F2539-I/SO
PIC18F2550-I/SO
PIC18F2550-I/SO023
PIC18F2550-I/SOVAO
PIC18F2550T-I/SO
PIC18F2550T-I/SO023
PIC18F2550T-I/SOVAO
PIC18F2553-I/SO
PIC18F2553-I/SOHXX
PIC18F2553T-I/SO
PIC18F2580-E/SO
PIC18F2580-E/SOVAO
PIC18F2580-I/SO
PIC18F2580-I/SOVAO
PIC18F2580T-E/SOVAO
PIC18F2580T-I/SO
PIC18F2580T-I/SOV01
PIC18F2580T-I/SOVAO
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PIC18F2585-H/SO
PIC18F2585-H/SOVAO
PIC18F2585-I/SO
PIC18F2585T-H/SOVAO
PIC18F2585T-I/SO
PIC18F258-E/SO
PIC18F258-E/SOC06
PIC18F258-I/SO
PIC18F258-I/SOC03
PIC18F258-I/SOVAO
PIC18F258T-E/SO020
PIC18F258T-E/SOC06
PIC18F258T-I/SO

PIC18F258T-I/SOC03
PIC18F258T-I/SOVAO
PIC18F25J10-I/SO
PIC18F25J11-I/SO
PIC18F25J11T-I/SO
PIC18F25J50-I/SO
PIC18F25J50T-I/SO
PIC18F25K20-E/SO
PIC18F25K20-E/SOC11
PIC18F25K20-I/SO
PIC18F25K20-I/SOLPR
PIC18F25K20-I/SOVAO
PIC18F25K20T-E/SO
PIC18F25K20T-E/SOC11
PIC18F25K20T-I/SO
PIC18F25K20T-I/SOLPR
PIC18F25K20T-I/SOVAO
PIC18F25K22-E/SO
PIC18F25K22-I/SO
PIC18F25K22T-I/SO
PIC18F25K80-E/SO
PIC18F25K80-I/SO
PIC18F25K80T-E/SO
PIC18F25K80T-I/SO
PIC18F2610-I/SO
PIC18F2620-E/SO
PIC18F2620-E/SOGC01
PIC18F2620-I/SO
PIC18F2620-I/SOB4
PIC18F2620T-E/SOGC01
PIC18F2620T-I/SO
PIC18F2620T-I/SOV04
PIC18F2620T-I/SOV05
PIC18F2680-E/SO
PIC18F2680-H/SO
PIC18F2680-H/SOVAO
PIC18F2680-I/SO
PIC18F2680-I/SOV02
PIC18F2680-I/SOVAO
PIC18F2680T-H/SOVAO
PIC18F2680T-I/SO
PIC18F2680T-I/SO056
PIC18F2680T-I/SO057
PIC18F2680T-I/SOV02
PIC18F2680T-I/SOV03
PIC18F2680T-I/SOVAO
PIC18F2682-E/SO
PIC18F2682-I/SO
PIC18F2682-I/SOV01
PIC18F2682T-I/SO
PIC18F2682T-I/SOV01
PIC18F2682T-I/SOV02

PIC18F2685-E/SO
PIC18F2685-I/SO
PIC18F2685T-I/SO
PIC18F26J11-I/SO
PIC18F26J11T-I/SO
PIC18F26J13-I/SO
PIC18F26J13T-I/SO
PIC18F26J50-I/SO
PIC18F26J50T-I/SO
PIC18F26J53-I/SO
PIC18F26J53T-I/SO
PIC18F26K20-E/SO
PIC18F26K20-I/SO
PIC18F26K20-I/SO024
PIC18F26K20-I/SOC01
PIC18F26K20-I/SOLPR
PIC18F26K20T-I/SO
PIC18F26K20T-I/SO024
PIC18F26K20T-I/SOC01
PIC18F26K20T-I/SOLPR
PIC18F26K22-E/SO
PIC18F26K22-I/SO
PIC18F26K22T-I/SO
PIC18F26K80-E/SO
PIC18F26K80-I/SO
PIC18F26K80T-E/SO
PIC18F26K80T-I/SO
PIC18F27J13-I/SO
PIC18F27J13T-I/SO
PIC18F27J53-I/SO
PIC18F27J53T-I/SO
PIC18LC242-I/SO
PIC18LC242T-I/SO
PIC18LC252-I/SO
PIC18LF14K22-ICE/SO
PIC18LF14K50-ICE/SO
PIC18LF2220-I/SO
PIC18LF2220T-I/SO
PIC18LF2220T-I/SOC02
PIC18LF2221-I/SO
PIC18LF2320-I/SO
PIC18LF2320-I/SOC08
PIC18LF2320-I/SOG
PIC18LF2320-I/SOV01
PIC18LF2320T-I/SO
PIC18LF2320T-I/SOV01
PIC18LF2321-I/SO
PIC18LF2321T-I/SO
PIC18LF2331-I/SO
PIC18LF23K22-E/SO
PIC18LF23K22-I/SO
PIC18LF23K22T-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
PIC18LF2455T-I/SO
PIC18LF2458-I/SO
PIC18LF2480-I/SO
PIC18LF2480T-I/SO
PIC18LF248-I/SO
PIC18LF24J10-I/SO
PIC18LF24J10T-I/SO
PIC18LF24J11-I/SO
PIC18LF24J11T-I/SO
PIC18LF24J50-I/SO
PIC18LF24J50T-I/SO
PIC18LF24K22-E/SO
PIC18LF24K22-I/SO
PIC18LF24K22T-I/SO
PIC18LF2510-I/SO
PIC18LF2510T-I/SO
PIC18LF2515-I/SO
PIC18LF2515T-I/SO
PIC18LF2520-I/SO
PIC18LF2520-I/SO035
PIC18LF2520-I/SO041
PIC18LF2520-I/SO048
PIC18LF2520-I/SOB3
PIC18LF2520T-I/SO
PIC18LF2520T-I/SO030
PIC18LF2520T-I/SO034
PIC18LF2520T-I/SO035
PIC18LF2520T-I/SO036
PIC18LF2520T-I/SOB3
PIC18LF2520T-I/SOC02
PIC18LF2523-I/SO
PIC18LF2523-I/SOB3
PIC18LF2523T-I/SO
PIC18LF2523T-I/SOB3
PIC18LF2525-I/SO
PIC18LF2525-I/SOC09
PIC18LF2525-I/SOVAO
PIC18LF2525T-I/SO
PIC18LF2525T-I/SOC09

PIC18LF2525T-I/SOV02
PIC18LF2525T-I/SOVAO
PIC18LF252-E/SOC14
PIC18LF252-I/SO
PIC18LF252T-I/SO
PIC18LF252T-I/SOVAO
PIC18LF2539-I/SO
PIC18LF2550-I/SO
PIC18LF2550T-I/SO
PIC18LF2553-I/SO
PIC18LF2553-I/SOHLF
PIC18LF2580-I/SO
PIC18LF2585-I/SO
PIC18LF2585T-I/SO
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PIC18LF258-I/SOG
PIC18LF258T-I/SO
PIC18LF25J10-I/SO
PIC18LF25J10T-I/SO
PIC18LF25J11-I/SO
PIC18LF25J11T-I/SO
PIC18LF25J50-I/SO
PIC18LF25J50T-I/SO
PIC18LF25K22-E/SO
PIC18LF25K22-I/SO
PIC18LF25K22T-I/SO
PIC18LF25K80-I/SO
PIC18LF25K80T-I/SO
PIC18LF2610-I/SO
PIC18LF2610-I/SOB4
PIC18LF2620-I/SO
PIC18LF2620T-I/SO
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PIC18LF2680-I/SO
PIC18LF2680T-I/SO
PIC18LF2682-I/SO
PIC18LF2682T-I/SO020
PIC18LF2685-I/SO
PIC18LF26J11-I/SO
PIC18LF26J11T-I/SO
PIC18LF26J13-I/SO
PIC18LF26J13T-I/SO
PIC18LF26J50-I/SO
PIC18LF26J50T-I/SO
PIC18LF26J53-I/SO
PIC18LF26J53T-I/SO
PIC18LF26K22-E/SO
PIC18LF26K22-I/SO
PIC18LF26K22T-I/SO
PIC18LF26K80-I/SO
PIC18LF26K80T-I/SO
PIC18LF27J13-I/SO

PIC18LF27J13T-I/SO
PIC18LF27J53-I/SO
PIC18LF27J53T-I/SO
PIC24EP64GP202-I/SO
PIC24EP64GP202T-I/SO
PIC24EP64MC202-I/SO
PIC24EP64MC202T-I/SO
PIC24F08KA102-E/SO
PIC24F08KA102-I/SO
PIC24F08KA102-I/SOC01
PIC24F08KA102T-I/SO
PIC24F16KA102-E/SO
PIC24F16KA102-I/SO
PIC24F16KA102T-I/SO
PIC24F16KA302-I/SO
PIC24F16KA302T-I/SO
PIC24F32KA302-I/SO
PIC24F32KA302T-I/SO
PIC24FJ16GA002-E/SO
PIC24FJ16GA002-I/SO
PIC24FJ16GA002-I/SOB4
PIC24FJ16GA002T-E/SO
PIC24FJ16GA002T-I/SO
PIC24FJ16MC102-E/SO
PIC24FJ16MC102-I/SO
PIC24FJ16MC102T-E/SO
PIC24FJ16MC102T-I/SO
PIC24FJ32GA002-E/SO
PIC24FJ32GA002-I/SO
PIC24FJ32GA002T-I/SO
PIC24FJ32GA002T-I/SO025
PIC24FJ32GA102-E/SO
PIC24FJ32GA102-I/SO
PIC24FJ32GA102T-I/SO
PIC24FJ32GB002-I/SO
PIC24FJ32GB002T-I/SO
PIC24FJ32GB002T-I/SO020
PIC24FJ48GA002-E/SO
PIC24FJ48GA002-I/SO
PIC24FJ48GA002T-I/SO
PIC24FJ64GA002-E/SO
PIC24FJ64GA002-I/SO
PIC24FJ64GA002T-I/SO
PIC24FJ64GA102-E/SO
PIC24FJ64GA102-I/SO
PIC24FJ64GA102T-I/SO
PIC24FJ64GB002-I/SO
PIC24FJ64GB002T-I/SO
PIC24FV16KA302-I/SO
PIC24FV16KA302T-I/SO
PIC24FV32KA302-I/SO
PIC24FV32KA302T-I/SO

PIC24HJ128GP202-E/SO
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PIC24HJ128GP202T-E/SO
PIC24HJ128GP202T-I/SO
PIC24HJ128GP502-E/SO
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PIC24HJ128GP502-I/SO
PIC24HJ128GP502T-E/SO
PIC24HJ128GP502T-H/SO
PIC24HJ128GP502T-I/SO
PIC24HJ12GP202-E/SO
PIC24HJ12GP202-I/SO
PIC24HJ12GP202T-E/SO
PIC24HJ12GP202T-I/SO
PIC24HJ32GP202-E/SO
PIC24HJ32GP202-H/SO
PIC24HJ32GP202-I/SO
PIC24HJ32GP202T-E/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
PIC24HJ64GP502-I/SOVAO
PIC24HJ64GP502T-E/SO
PIC24HJ64GP502T-H/SO
PIC24HJ64GP502T-I/SO
PIC24HJ64GP502T-I/SOA21
PIC32MX110F016B-I/SO
PIC32MX110F016BT-I/SO
PIC32MX110F016BT-V/SO
PIC32MX110F016B-V/SO
PIC32MX120F032B-I/SO
PIC32MX120F032BT-I/SO
PIC32MX120F032BT-V/SO
PIC32MX120F032B-V/SO
PIC32MX210F016B-I/SO
PIC32MX210F016BT-I/SO
PIC32MX210F016BT-V/SO
PIC32MX210F016B-V/SO
PIC32MX220F032B-I/SO
PIC32MX220F032BT-I/SO
PIC32MX220F032BT-V/SO

PIC32MX220F032B-V/SO
TC514COI
TC514COI713
TC514EOI
TC514EOI713
TC530COI



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN#: CYER-22JGDE810

Date
September 28, 2011

**Qualification of 18 SOIC packages with SG-8300GM mold compound at
MTAI assembly site.**

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of 18 SOIC packages with SG-8300GM mold compound at MTAI assembly site.
CN	BC112094
QUAL ID	Q11081
MP CODE	DFAE17F2XC20
Part No.	DSPIC30F3012-20I/SO
Bonding No.	A-018064 Rev. F
CCB No.	990.01
<u>Package</u>	
Type	18L SOIC
Package size	300 mils
Die thickness	15 mils
Die size	147.50 x 181.90 mils
<u>Lead Frame</u>	
Paddle size	160 x 200 mils
Material	CDA194
Surface	Ag spot
Process	Stamped
Lead Lock	No
Part Number	10101805
<u>Die attach material</u>	
Epoxy	8390A
Wire	Au wire
Mold Compound	SG-8300GM
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTA1121901510	TMPE212048176.100	1132BT3
MTA1121901511	TMPE212048176.120	1132BT4
MTA1121901512	TMPE212048176.110	1132BT5

Result

Pass Fail _____

18L SOIC assembled by MTA1 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-020C standard.

Prepared By: _____ **Date:** September 28, 2011 **(Reliability Engineer)**

(Mr.Thinnapol Nakkasun)

Approved By: _____ **Date:** September 28, 2011 **(Reliability Manager)**

(Mr. Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
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<u>MSL</u>								
MSL Level 1/260°C	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020C)	S12/14/16 (PDC)	135	08/18/11	08/29/11	0/135	Pass	

<u>Precondition</u>								
Electrical Test	Electrical Test : +25°C and 85°C System: J750	S12/14/16 (PDC)	693(0)	08/17/11	08/17/11	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		08/18/11	08/19/11	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		08/19/11	08/27/11	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		08/27/11	08/27/11	693		
Electrical Test	Electrical Test : +25°C and 85°C System: J750	S12/14/16 (PDC)		08/27/11	08/29/11	0/693	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		08/30/11	09/17/11	231		Parts had been pre-conditioned at 260°C
	Electrical Test: + 85°C System: J750	S12/14/16 (PDC)	30(0)	09/17/11	09/17/11	0/30		
	Bond Strength: Bond Shear (14.00 grams) Wire Pull (> 3 grams)	QCI-91022	231(0)	09/17/11	09/18/11	0/231	Pass	77 units / lot
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-91261B		09/18/11	09/19/11	0/15	Pass	
	Electrical Test: +25°C System: J750	S12/14/16 (PDC)	15 (0)	09/18/11	09/19/11	0/15	Pass	
				08/30/11	09/03/11	231		Parts had been pre-conditioned at 260°C
				09/03/11	09/05/11	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		08/30/11	09/05/11	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: J750	S12/14/16 (PDC)	231(0)	09/05/11	09/06/11	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: SHEL LAB	PI-92014B S12/14/16 (PDC)		08/18/11	09/11/11	45		45 units
	Electrical Test: +25°C and 85°C System: J750		45(0)	09/11/11	09/12/11	0/45	Pass	
Bond Strength Data Assembly	Bond Shear (14.00 grams)		30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)	QCI-91022	30 (0) wires	-	-	0/30	Pass	