




A Leading Provider of Microcontrollers & Analog Semiconductors

Product Change Notification - CYER-22ZGAM810

Date: 08 Nov 2010

Product Category: Memory; Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; 8-bit Microcontrollers

Device Family: 

Notification subject: CCB 990.05: Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site.

Notification text:

PCN Status:
Final notification

Microchip Part#s Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCN_CYER-22ZGAM810_Affected_CPN.xls
PCN_CYER-22ZGAM810_Affected_CPN.pdf

Description of Change:
Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site.

Pre Change:
G600V

Post Change:
SG-8300GM

Impacts to Data Sheet:
None

Reason for Change:
To improve productivity

Change Implementation Status:
In Progress

Estimated First Ship Date:
December 31, 2011 (Date code 1101)

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

Markings to Distinguish Revised from Unrevised Devices:
Traceability code

Attachment(s): [PCN_CYER-22ZGAM810_Affected_CPN.pdf](#)
[PCN_CYER-22ZGAM810_Affected_CPN.xls](#)
[PCN_CYER-22ZGAM810_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 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, then click on "Update profile" and un-check the box that states "Future offers or information about Microchip's products or services."



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN#: CYER-22ZGAM810

Date
October 28, 2010

**Qualification of 8L MSOP package with
SG-8300GM mold compound at MTAI
assembly site**

Distribution

Surasit P.
Wanphen L.
Wichai K.
Suchart S.

Rangsun K.
C.K. Barlingay
R. Sharma

Microchip Technology (Thailand) Co., Ltd.
14 Moo 1 T.Wangtakien A. Muangchacherngsao,
Chacherngsao, Thailand, 24000
Tel. (+66 38) 857119-45, 857311-19 ext. 1231
Fax (+66 38) 857149-50



MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of 8L MSOP package with SG-8300GM mold compound at MTAI assembly site
CN	BC102192
QUAL ID	Q10090
MP CODE	Y2AJ1BA3XC00
Part No.	TC4426EUA
Bonding No.	A-023191 Rev. C
CCB No.	990.05
<u>Package</u>	
Type	8L MSOP
Package size	3x3 mm
Die thickness	8 mils
Die size	78 x 62 mils
<u>Lead Frame</u>	
Paddle size	82 x 94 mils
Material	CDA194
Surface	Ag spot
Process	Stamped
Lead Lock	No
Part Number	10100836
<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
MTA1112302312	TMPE211156092.100	1036VAT
MTA1112302852	TMPE211156092.100	1036W1S
MTA1112302924	TMPE211156092.100	1036WAW

Result

Pass Fail _____

8L MSOP 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-020C standard.

Prepared By: _____) Date: October 28, 2010 (Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By: _____) Date: October 28, 2010 (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
<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	09/11/10	09/21/10	0/135	Pass	
<u>Precondition</u>								
Electrical Test	Electrical Test :+25°C and 85°C System: TTS (Test 1 lot 125°C on MTAI112302312.000)	S12/14/16 (PDC)	693(0)	09/08/10	09/10/10	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		09/12/10	09/13/10	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		09/13/10	09/20/10	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		09/20/10	09/21/10	693		
Electrical Test	Electrical Test :+25°C and 85°C System: TTS (Test 1 lot 125°C on MTAI112302312.000)	S12/14/16 (PDC)		0/21/10	09/29/10	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		10/30/10	09/16/10	231		Parts had been pre-conditioned at 260°C
		QCI-33003	30(0)	10/16/10	10/16/10	0/30		
	Electrical Test: +25°C and 85°C System: J750 (Test 1 lot 125°C on MTAI112302312.000)	S12/14/16 (PDC)	231(0)	10/16/10	10/19/10	0/231	Pass	77 units / lot
Bond Strength: Bond Shear (12.40 grams) Wire Pull (> 3 grams)		QCI-91022	15 (0)	10/19/10	10/19/10	0/15	Pass	
			15 (0)	10/19/10	10/19/10	0/15	Pass	
Pressure Cooker	Stress Condition: +121°C, 100% RH, 15 PSI, 96 hrs. System: HIRAYAMA TPC-422R	PI-92013B		10/04/10	10/08/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: J750	S12/14/16 (PDC)	231(0)	10/08/10	10/09/10	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		10/04/10	10/08/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112302312.000)	S12/14/16 (PDC)	231(0)	10/08/10	10/13/10	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		09/10/10	10/03/10	45		45 units
	Electrical Test: +25°C and 85°C System: J750	(PDC)	45(0)	10/03/10	10/04/10	0/45	Pass	
Bond Strength Data Assembly	Bond Shear (14.00 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)		30 (0) wires	-	-	0/30	Pass	

PCN# - CYER-22ZGAM810
CATALOG_PART_NBR
11AA010-I/MS
11AA010T-I/MS
11AA020-I/MS
11AA020T-I/MS
11AA040-I/MS
11AA040T-I/MS
11AA080-I/MS
11AA080T-I/MS
11AA160-I/MS
11AA160T-I/MS
11LC010-I/MS
11LC010T-I/MS
11LC020-I/MS
11LC020T-I/MS
11LC040-I/MS
11LC040T-I/MS
11LC080-I/MS
11LC080T-I/MS
11LC160-I/MS
11LC160T-I/MS
24AA014H-I/MS
24AA014HT-I/MS
24AA014-I/MS
24AA014T-I/MS
24AA01H-I/MS
24AA01HT-I/MS
24AA01-I/MS
24AA01T-I/MS
24AA024H-I/MS
24AA024HT-I/MS
24AA024-I/MS
24AA024T-I/MS
24AA025-I/MS
24AA025T-I/MS
24AA02H-I/MS
24AA02HT-I/MS
24AA02-I/MS
24AA02-I/MSB31
24AA02T-I/MS
24AA02T-I/MSB31
24AA04H-I/MS
24AA04HT-I/MS
24AA04-I/MS
24AA04T-I/MS
24AA08H-I/MS
24AA08HT-I/MS
24AA08-I/MS
24AA08T-I/MS
24AA128-I/MS
24AA128T-I/MS

24AA16H-I/MS
24AA16HT-I/MS
24AA16-I/MS
24AA16T-I/MS
24AA256-I/MS
24AA256-I/MSB31
24AA256T-I/MS
24AA32AF-I/MS
24AA32AFT-I/MS
24AA32A-I/MS
24AA32AT-I/MS
24AA52-I/MS
24AA52T-I/MS
24AA64F-I/MS
24AA64FT-I/MS
24AA64-I/MS
24AA64T-I/MS
24C01C-E/MS
24C01C-I/MS
24C01CT-E/MS
24C01CT-I/MS
24C02C-E/MS
24C02C-I/MS
24C02CT-E/MS
24C02CT-I/MS
24FC128-I/MS
24FC128T-I/MS
24FC256-I/MS
24FC256T-I/MS
24FC64-I/MS
24FC64T-I/MS
24LC014H-E/MS
24LC014H-I/MS
24LC014HT-E/MS
24LC014HT-I/MS
24LC014-I/MS
24LC014T-E/MS
24LC014T-I/MS
24LC01B-E/MS
24LC01BH-E/MS
24LC01BH-I/MS
24LC01BHT-E/MS
24LC01BHT-I/MS
24LC01B-I/MS
24LC01BT-E/MS
24LC01BT-I/MS
24LC024-E/MS
24LC024H-E/MS
24LC024H-I/MS
24LC024HT-E/MS
24LC024HT-I/MS
24LC024-I/MS

24LC024T-E/MS
24LC024T-I/MS
24LC025-E/MS
24LC025-I/MS
24LC025T-E/MS
24LC025T-I/MS
24LC02B-E/MS
24LC02BH-E/MS
24LC02BH-I/MS
24LC02BHT-E/MS
24LC02BHT-I/MS
24LC02B-I/MS
24LC02BT-E/MS
24LC02BT-I/MS
24LC04B-E/MS
24LC04BH-E/MS
24LC04BH-I/MS
24LC04BHT-E/MS
24LC04BHT-I/MS
24LC04B-I/MS
24LC04BT-E/MS
24LC04BT-I/MS
24LC08B-E/MS
24LC08BH-E/MS
24LC08BH-I/MS
24LC08BHT-E/MS
24LC08BHT-I/MS
24LC08B-I/MS
24LC08B-I/MS16KV07
24LC08BT-E/MS
24LC08BT-I/MS
24LC08BT-I/MS16KV07
24LC128-E/MS
24LC128-I/MS
24LC128T-E/MS
24LC128T-I/MS
24LC16B-E/MS
24LC16BH-E/MS
24LC16BH-I/MS
24LC16BHT-E/MS
24LC16BHT-I/MS
24LC16B-I/MS
24LC16BT-E/MS
24LC16BT-I/MS
24LC256-E/MS
24LC256-I/MS
24LC256T-E/MS
24LC256T-I/MS
24LC32A-E/MS
24LC32AF-E/MS
24LC32AF-I/MS
24LC32AFT-E/MS

24LC32AFT-I/MS
24LC32A-I/MS
24LC32AT-E/MS
24LC32AT-I/MS
24LC64-E/MS
24LC64F-E/MS
24LC64F-I/MS
24LC64FT-E/MS
24LC64FT-I/MS
24LC64-I/MS
24LC64T-E/MS
24LC64T-I/MS
24LCS52-I/MS
24LCS52T-I/MS
24VL014/MS
24VL014H/MS
24VL014HT/MS
24VL014T/MS
24VL024/MS
24VL024H/MS
24VL024HT/MS
24VL024T/MS
24VL025/MS
24VL025T/MS
25AA010A-I/MS
25AA010AT-I/MS
25AA020A-I/MS
25AA020AT-I/MS
25AA040A-I/MS
25AA040AT-I/MS
25AA080A-I/MS
25AA080A-I/MS15KVAO
25AA080AT-I/MS
25AA080AT-I/MS15KV06
25AA080AT-I/MS15KVAO
25AA080B-I/MS
25AA080C-I/MS
25AA080CT-I/MS
25AA080D-I/MS
25AA080DT-I/MS
25AA160A-I/MS
25AA160AT-I/MS
25AA160B-I/MS
25AA160C-I/MS
25AA160CT-I/MS
25AA160D-I/MS
25AA160DT-I/MS
25AA320A-I/MS
25AA320AT-I/MS
25AA640A-E/MS
25AA640A-I/MS
25AA640A-I/MS16KVAO

25AA640AT-E/MS
25AA640AT-I/MS
25AA640AT-I/MS16KV08
25AA640AT-I/MS16KVAO
25LC010A-E/MS
25LC010A-I/MS
25LC010AT-E/MS
25LC010AT-I/MS
25LC020A-E/MS
25LC020A-I/MS
25LC020AT-E/MS
25LC020AT-I/MS
25LC040A-E/MS
25LC040A-I/MS
25LC040AT-E/MS
25LC040AT-I/MS
25LC080A-E/MS
25LC080A-I/MS
25LC080AT-E/MS
25LC080AT-E/MS15KV05
25LC080AT-I/MS
25LC080B-E/MS
25LC080B-I/MS
25LC080BT-I/MS
25LC080BT-I/MS15KV02
25LC080C-E/MS
25LC080C-I/MS
25LC080CT-E/MS
25LC080CT-I/MS
25LC080D-E/MS
25LC080D-I/MS
25LC080DT-E/MS
25LC080DT-I/MS
25LC160A-E/MS
25LC160A-I/MS
25LC160AT-E/MS
25LC160AT-I/MS
25LC160B-E/MS
25LC160B-I/MS
25LC160BT-E/MS
25LC160BT-I/MS
25LC160C-E/MS
25LC160C-I/MS
25LC160CT-E/MS
25LC160CT-I/MS
25LC160D-E/MS
25LC160D-I/MS
25LC160DT-E/MS
25LC160DT-I/MS
25LC320A-E/MS
25LC320A-I/MS
25LC320AT-E/MS

25LC320AT-I/MS
25LC640A-E/MS
25LC640A-I/MS
25LC640AT-E/MS
25LC640AT-I/MS
34AA02-E/MS
34AA02-I/MS
34AA02T-E/MS
34AA02T-I/MS
34LC02-E/MS
34LC02-I/MS
34LC02T-E/MS
34LC02T-I/MS
34VL02/MS
34VL02T/MS
93AA46A-I/MS
93AA46AT-I/MS
93AA46B-I/MS
93AA46BT-I/MS
93AA46C-I/MS
93AA46CT-I/MS
93AA56A-I/MS
93AA56B-I/MS
93AA56C-I/MS
93AA66A-I/MS
93AA66B-I/MS
93AA66C-I/MS
93AA76C-I/MS
93AA86C-I/MS
93AA86CT-I/MS
93C46A-E/MS
93C46A-I/MS
93C46AT-E/MS
93C46B-I/MS
93C46BT-I/MS
93C46C-I/MS
93C46CT-I/MS
93C56A-I/MS
93C56C-I/MS
93C66A-I/MS
93C66B-E/MS
93C66B-I/MS
93C66C-I/MS
93C76C-I/MS
93LC46A-E/MS
93LC46A-I/MS
93LC46AT-I/MS
93LC46B-E/MS
93LC46B-I/MS
93LC46BT-I/MS
93LC46C-E/MS
93LC46C-I/MS

93LC46CT-I/MS
93LC56A-I/MS
93LC56B-E/MS
93LC56B-I/MS
93LC56BT-I/MS
93LC56C-I/MS
93LC56CT-I/MS
93LC66A-I/MS
93LC66B-I/MS
93LC66BT-I/MS
93LC66C-I/MS
93LC66CT-I/MS
93LC76C-E/MS
93LC76C-I/MS
93LC76CT-I/MS
93LC86C-I/MS
93LC86CT-I/MS
MCP1252-33X50I/MS
MCP1252-ADJI/MS
MCP1252-ADJI/MSVAO
MCP1252T-33X50I/MS
MCP1252T-ADJI/MS
MCP1252T-ADJI/MSVAO
MCP1253-33X50I/MS
MCP1253-ADJI/MS
MCP1253T-33X50I/MS
MCP1253T-33X50I/MSV01
MCP1253T-ADJI/MS
MCP1601-I/MS
MCP1601T-I/MS
MCP1602-120I/MS
MCP1602-150I/MS
MCP1602-180I/MS
MCP1602-250I/MS
MCP1602-330I/MS
MCP1602-ADJI/MS
MCP1602-FIXI/MS
MCP1602T-120I/MS
MCP1602T-150I/MS
MCP1602T-180I/MS
MCP1602T-250I/MS
MCP1602T-330I/MS
MCP1602T-ADJI/MS
MCP1602T-FIXI/MS
MCP1612-ADJI/MS
MCP1612T-ADJI/MS
MCP1630-E/MS
MCP1630-E/MSVAO
MCP1630T-E/MS
MCP1630T-E/MSV01
MCP1630T-E/MSV02
MCP1630T-E/MSVAO

MCP1630V-E/MS
MCP1630VT-E/MS
MCP1650R-E/MS
MCP1650RT-E/MS
MCP1650S-E/MS
MCP1650ST-E/MS
MCP1651R-E/MS
MCP1651RT-E/MS
MCP1651S-E/MS
MCP1651ST-E/MS
MCP1652R-E/MS
MCP1652RT-E/MS
MCP1652S-E/MS
MCP1652ST-E/MS
MCP3001-I/MS
MCP3002-I/MS
MCP3201-CI/MS
MCP3201T-CI/MS
MCP3202-CI/MS
MCP3202T-CI/MS
MCP3301-BI/MS
MCP3301-CI/MS
MCP3301T-BI/MS
MCP3301T-CI/MS
MCP3422A0-E/MS
MCP3422A0T-E/MS
MCP3422A1-E/MS
MCP3422A1T-E/MS
MCP3422A2-E/MS
MCP3422A2T-E/MS
MCP3422A3-E/MS
MCP3422A3T-E/MS
MCP3422A4-E/MS
MCP3422A4T-E/MS
MCP3422A5-E/MS
MCP3422A5T-E/MS
MCP3422A6-E/MS
MCP3422A6T-E/MS
MCP3422A7-E/MS
MCP3422A7T-E/MS
MCP3426A0-E/MS
MCP3426A0T-E/MS
MCP3426A1-E/MS
MCP3426A1T-E/MS
MCP3426A2-E/MS
MCP3426A2T-E/MS
MCP3426A3-E/MS
MCP3426A3T-E/MS
MCP3426A4-E/MS
MCP3426A4T-E/MS
MCP3426A5-E/MS
MCP3426A5T-E/MS

MCP3426A6-E/MS
MCP3426A6T-E/MS
MCP3426A7-E/MS
MCP3426A7T-E/MS
MCP3550-50E/MS
MCP3550-60E/MS
MCP3550T-50E/MS
MCP3550T-60E/MS
MCP3551-E/MS
MCP3551T-E/MS
MCP3553-E/MS
MCP3553T-E/MS
MCP4011-103E/MS
MCP4011-202E/MS
MCP4011-502E/MS
MCP4011-503E/MS
MCP4011T-103E/MS
MCP4011T-202E/MS
MCP4011T-502E/MS
MCP4011T-503E/MS
MCP4021-103E/MS
MCP4021-202E/MS
MCP4021-502E/MS
MCP4021-503E/MS
MCP4021T-103E/MS
MCP4021T-202E/MS
MCP4021T-502E/MS
MCP4021T-503E/MS
MCP4131-103E/MS
MCP4131-104E/MS
MCP4131-502E/MS
MCP4131-503E/MS
MCP4131T-103E/MS
MCP4131T-104E/MS
MCP4131T-502E/MS
MCP4131T-503E/MS
MCP4132-103E/MS
MCP4132-104E/MS
MCP4132-502E/MS
MCP4132-503E/MS
MCP4132T-103E/MS
MCP4132T-104E/MS
MCP4132T-502E/MS
MCP4132T-503E/MS
MCP4141-103E/MS
MCP4141-104E/MS
MCP4141-502E/MS
MCP4141-503E/MS
MCP4141T-103E/MS
MCP4141T-104E/MS
MCP4141T-502E/MS
MCP4141T-503E/MS

MCP4142-103E/MS
MCP4142-104E/MS
MCP4142-502E/MS
MCP4142-503E/MS
MCP4142T-103E/MS
MCP4142T-104E/MS
MCP4142T-502E/MS
MCP4142T-503E/MS
MCP4151-103E/MS
MCP4151-104E/MS
MCP4151-502E/MS
MCP4151-503E/MS
MCP4151T-103E/MS
MCP4151T-104E/MS
MCP4151T-502E/MS
MCP4151T-503E/MS
MCP4152-103E/MS
MCP4152-104E/MS
MCP4152-502E/MS
MCP4152-503E/MS
MCP4152T-103E/MS
MCP4152T-104E/MS
MCP4152T-502E/MS
MCP4152T-503E/MS
MCP4161-103E/MS
MCP4161-104E/MS
MCP4161-502E/MS
MCP4161-503E/MS
MCP4161T-103E/MS
MCP4161T-104E/MS
MCP4161T-502E/MS
MCP4161T-503E/MS
MCP4162-103E/MS
MCP4162-104E/MS
MCP4162-502E/MS
MCP4162-503E/MS
MCP4162T-103E/MS
MCP4162T-104E/MS
MCP4162T-502E/MS
MCP4162T-503E/MS
MCP4531-103E/MS
MCP4531-104E/MS
MCP4531-502E/MS
MCP4531-503E/MS
MCP4531T-103E/MS
MCP4531T-104E/MS
MCP4531T-502E/MS
MCP4531T-503E/MS
MCP4532-103E/MS
MCP4532-104E/MS
MCP4532-502E/MS
MCP4532-503E/MS

MCP4532T-103E/MS
MCP4532T-104E/MS
MCP4532T-502E/MS
MCP4532T-503E/MS
MCP4541-103E/MS
MCP4541-104E/MS
MCP4541-502E/MS
MCP4541-503E/MS
MCP4541T-103E/MS
MCP4541T-104E/MS
MCP4541T-502E/MS
MCP4541T-503E/MS
MCP4542-103E/MS
MCP4542-104E/MS
MCP4542-502E/MS
MCP4542-503E/MS
MCP4542T-103E/MS
MCP4542T-104E/MS
MCP4542T-502E/MS
MCP4542T-503E/MS
MCP4551-103E/MS
MCP4551-104E/MS
MCP4551-502E/MS
MCP4551-503E/MS
MCP4551T-103E/MS
MCP4551T-104E/MS
MCP4551T-502E/MS
MCP4551T-503E/MS
MCP4552-103E/MS
MCP4552-104E/MS
MCP4552-502E/MS
MCP4552-503E/MS
MCP4552T-103E/MS
MCP4552T-104E/MS
MCP4552T-502E/MS
MCP4552T-503E/MS
MCP4561-103E/MS
MCP4561-104E/MS
MCP4561-502E/MS
MCP4561-503E/MS
MCP4561T-103E/MS
MCP4561T-104E/MS
MCP4561T-502E/MS
MCP4561T-503E/MS
MCP4562-103E/MS
MCP4562-104E/MS
MCP4562-502E/MS
MCP4562-503E/MS
MCP4562T-103E/MS
MCP4562T-104E/MS
MCP4562T-502E/MS
MCP4562T-503E/MS

MCP4801-E/MS
MCP4801T-E/MS
MCP4802-E/MS
MCP4802T-E/MS
MCP4811-E/MS
MCP4811T-E/MS
MCP4812-E/MS
MCP4812T-E/MS
MCP4821-E/MS
MCP4821-E/MSAPL
MCP4821T-E/MS
MCP4821T-E/MSAPL
MCP4822-E/MS
MCP4822T-E/MS
MCP4901-E/MS
MCP4901T-E/MS
MCP4911-E/MS
MCP4911T-E/MS
MCP4921-E/MS
MCP4921-E/MSVAO
MCP4921T-E/MS
MCP4921T-E/MSVAO
MCP6002-E/MS
MCP6002-E/MSVAO
MCP6002-I/MS
MCP6002-I/MSV01
MCP6002-I/MSVAO
MCP6002T-E/MS
MCP6002T-E/MSVAO
MCP6002T-I/MS
MCP6002T-I/MSV01
MCP6002T-I/MSV05
MCP6002T-I/MSVAO
MCP6021-E/MS
MCP6021T-E/MS
MCP6031-E/MS
MCP6031T-E/MS
MCP6032-E/MS
MCP6032T-E/MS
MCP6033-E/MS
MCP6033T-E/MS
MCP6041-E/MS
MCP6041-I/MS
MCP6041T-E/MS
MCP6041T-I/MS
MCP6042-E/MS
MCP6042-E/MSV01
MCP6042-I/MS
MCP6042T-E/MS
MCP6042T-E/MSV01
MCP6042T-I/MS
MCP6043-E/MS

MCP6043-I/MS
MCP6043T-E/MS
MCP6043T-I/MS
MCP6141-E/MS
MCP6141-I/MS
MCP6141T-E/MS
MCP6141T-I/MS
MCP6142-E/MS
MCP6142-I/MS
MCP6142T-E/MS
MCP6142T-I/MS
MCP6143-E/MS
MCP6143-I/MS
MCP6143T-E/MS
MCP6143T-I/MS
MCP616-I/MS
MCP616T-I/MS
MCP617-I/MS
MCP617T-I/MS
MCP618-I/MS
MCP618T-I/MS
MCP6231-E/MS
MCP6231T-E/MS
MCP6232-E/MS
MCP6232T-E/MS
MCP6241-E/MS
MCP6241T-E/MS
MCP6242-E/MS
MCP6242T-E/MS
MCP6271-E/MS
MCP6271T-E/MS
MCP6272-E/MS
MCP6272T-E/MS
MCP6273-E/MS
MCP6273T-E/MS
MCP6275-E/MS
MCP6275T-E/MS
MCP6281-E/MS
MCP6281T-E/MS
MCP6282-E/MS
MCP6282-E/MSVAO
MCP6282T-E/MS
MCP6282T-E/MSVAO
MCP6283-E/MS
MCP6283T-E/MS
MCP6285-E/MS
MCP6285T-E/MS
MCP6291-E/MS
MCP6291T-E/MS
MCP6292-E/MS
MCP6292-E/MSAAA
MCP6292T-E/MS

MCP6292T-E/MSAAA
MCP6292T-E/MSV03
MCP6293-E/MS
MCP6293T-E/MS
MCP6295-E/MS
MCP6295T-E/MS
MCP6541-E/MS
MCP6541-I/MS
MCP6541T-E/MS
MCP6541T-I/MS
MCP6542-E/MS
MCP6542-I/MS
MCP6542-I/MSGV01
MCP6542T-E/MS
MCP6542T-I/MS
MCP6542T-I/MSGV01
MCP6543-E/MS
MCP6543-I/MS
MCP6543T-E/MS
MCP6543T-I/MS
MCP6546-E/MS
MCP6546-I/MS
MCP6546T-E/MS
MCP6546T-I/MS
MCP6547-E/MS
MCP6547-I/MS
MCP6547T-E/MS
MCP6547T-I/MS
MCP6548-E/MS
MCP6548-I/MS
MCP6548T-E/MS
MCP6548T-I/MS
MCP6562-E/MS
MCP6562T-E/MS
MCP6567-E/MS
MCP6567T-E/MS
MCP6G01-E/MS
MCP6G01T-E/MS
MCP6G02-E/MS
MCP6G02T-E/MS
MCP6G03-E/MS
MCP6G03T-E/MS
MCP6L02T-E/MS
MCP6L1T-E/MS
MCP6L2T-E/MS
MCP6L71T-E/MS
MCP6L72T-E/MS
MCP6L91T-E/MS
MCP6L92T-E/MS
MCP6L92T-E/MSVAO
MCP6S21-I/MS
MCP6S21T-I/MS

MCP6S22-I/MS
MCP6S22T-I/MS
MCP6S91-E/MS
MCP6S91T-E/MS
MCP6S92-E/MS
MCP6S92T-E/MS
MCP73827-4.1VUA
MCP73827-4.1VUATR
MCP73827-4.2VUA
MCP73827-4.2VUATR
MCP73828-4.1VUA
MCP73828-4.1VUATR
MCP73828-4.2VUA
MCP73828-4.2VUATR
MCP73843-410I/MS
MCP73843-420I/MS
MCP73843T-410I/MS
MCP73843T-420I/MS
MCP73844-820I/MS
MCP73844-840I/MS
MCP73844T-820I/MS
MCP73844T-840I/MS
MCP9801-M/MS
MCP9801-M/MSRC2
MCP9801T-M/MS
MCP9801T-M/MSRC2
MCP9803-M/MS
MCP9803-M/MSRC2
MCP9803T-M/MS
MCP9803T-M/MSRC2
MCP9804-E/MS
MCP9804T-E/MS
PIC12F508-E/MS
PIC12F508-I/MS
PIC12F508-I/MS05
PIC12F508-I/MSVAO
PIC12F508T-E/MS
PIC12F508T-E/MS030
PIC12F508T-E/MS049
PIC12F508T-I/MS
PIC12F508T-I/MS032
PIC12F508T-I/MS054
PIC12F508T-I/MS064
PIC12F508T-I/MS05
PIC12F508T-I/MSVAO
PIC12F509-E/MS
PIC12F509-I/MS
PIC12F509T-E/MS
PIC12F509T-I/MS
PIC12F509T-I/MS029
PIC12F509T-I/MS030
PIC12F509T-I/MS031

PIC12F510-E/MS
PIC12F510-I/MS
PIC12F510-I/MS04
PIC12F510T-E/MS
PIC12F510T-I/MS
PIC12F510T-I/MS023
PIC12F510T-I/MS034
PIC12F510T-I/MS050
PIC12F510T-I/MS04
PIC12F519-E/MS
PIC12F519-I/MS
PIC12F519T-I/MS
PIC12F609-E/MS
PIC12F609-I/MS
PIC12F609T-E/MS
PIC12F609T-I/MS
PIC12F615-E/MS
PIC12F615-H/MS
PIC12F615-H/MSVAO
PIC12F615-I/MS
PIC12F615-I/MS030
PIC12F615-I/MS031
PIC12F615-I/MS02
PIC12F615-I/MS05
PIC12F615T-E/MS
PIC12F615T-H/MS025
PIC12F615T-H/MSV02
PIC12F615T-H/MSVAO
PIC12F615T-I/MS
PIC12F615T-I/MS021
PIC12F615T-I/MS022
PIC12F615T-I/MS023
PIC12F615T-I/MS041
PIC12F615T-I/MS049
PIC12F615T-I/MS052
PIC12F615T-I/MS02
PIC12F615T-I/MS05
PIC12F615T-I/MSV03
PIC12F617-E/MS
PIC12F617-I/MS
PIC12F617T-I/MS
PIC12HV609-E/MS
PIC12HV609-I/MS
PIC12HV609T-I/MS
PIC12HV615-E/MS
PIC12HV615-I/MS
PIC12HV615T-E/MS
PIC12HV615T-I/MS
TC1026CEUA
TC1026CEUART
TC1026CEUATR
TC1029EUA

TC1029EUATR
TC1029EUATR-SAM
TC1041CEUA
TC1041CEUATR
TC1041CEUATRAAA
TC1107-2.5VUA
TC1107-2.5VUATR
TC1107-2.7VUA
TC1107-2.7VUATR
TC1107-2.8VUA
TC1107-2.8VUATR
TC1107-3.0VUA
TC1107-3.0VUATR
TC1107-3.3VUA
TC1107-3.3VUATR
TC1107-5.0VUA
TC1107-5.0VUATR
TC1121CUA
TC1121CUA713
TC1121EUA
TC1121EUA713
TC1173-2.5VUA
TC1173-2.5VUATR
TC1173-2.7VUA
TC1173-2.7VUATR
TC1173-2.8VUA
TC1173-2.8VUATR
TC1173-3.0VUA
TC1173-3.0VUATR
TC1173-3.3VUA
TC1173-3.3VUATR
TC1173-5.0VUA
TC1173-5.0VUATR
TC1174VUA
TC1174VUAMR
TC1174VUATR
TC1266VUA
TC1266VUATR
TC1269-2.5VUA
TC1269-2.5VUATR
TC1269-2.7VUA
TC1269-2.7VUATR
TC1269-2.8VUA
TC1269-2.8VUATR
TC1269-3.0VUA
TC1269-3.0VUATR
TC1269-3.3VUA
TC1269-3.3VUATR
TC1269-5.0VUA
TC1269-5.0VUATR
TC1300K-2.5VUA
TC1300K-2.5VUATR

TC1300R-2.5VUA
TC1300R-2.5VUATR
TC1300R-2.85VUA
TC1300R-2.85VUATR
TC1300R-2.8VUA
TC1300R-2.8VUATR
TC1300R-2.8VUATRAAA
TC1300R-3.0VUA
TC1300R-3.0VUATR
TC1300R-3.0VUATRAAB
TC1300R-3.3VUA
TC1300R-3.3VUATR
TC1300Y-2.7VUA
TC1300Y-2.7VUATR
TC1301A-AAAVUA
TC1301A-AAAVUATR
TC1301A-ADAVUA
TC1301A-ADAVUATR
TC1301A-APAVUA
TC1301A-APAVUATR
TC1301A-DDAVUA
TC1301A-DDAVUATR
TC1301A-DFAVUA
TC1301A-DFAVUATR
TC1301A-EDAVUA
TC1301A-EDAVUATR
TC1301A-EFAVUA
TC1301A-EFAVUATR
TC1301A-EGAVUA
TC1301A-EGAVUATR
TC1301A-FDAVUA
TC1301A-FDAVUATR
TC1301A-FEAVUA
TC1301A-FEAVUATR
TC1301A-FFAVUA
TC1301A-FFAVUATR
TC1301A-FFEAVUA
TC1301A-FFEAVUATR
TC1301A-FGAVUA
TC1301A-FGAVUATR
TC1301A-FHAVUA
TC1301A-FHAVUATR
TC1301A-FSAVUA
TC1301A-FSAVUATR
TC1301A-NICVUA
TC1301A-NICVUATR
TC1301A-NSBVUA
TC1301A-NSBVUATR
TC1301A-PHEVUA
TC1301A-PHEVUATR
TC1301A-SFAVUA
TC1301A-SFAVUATR

TC1301A-SGBVUA
TC1301A-SGBVUATR
TC1301A-SSBVUA
TC1301A-SSBVUATR
TC1301A-UFEVUA
TC1301A-UFEVUATR
TC1301A-UPBVUA
TC1301A-UPBVUATR
TC1301A-UWVUA
TC1301A-UWVUATR
TC1301B-APAVUA
TC1301B-APAVUATR
TC1301B-CCAVUA
TC1301B-CCAVUATR
TC1301B-DAAVUA
TC1301B-DAAVUATR
TC1301B-DDAVUA
TC1301B-DDAVUATR
TC1301B-DPAVUA
TC1301B-DPAVUATR
TC1301B-EDAVUA
TC1301B-EDAVUATR
TC1301B-EFAVUA
TC1301B-EFAVUATR
TC1301B-EGAVUA
TC1301B-EGAVUATR
TC1301B-FAAVUA
TC1301B-FAAVUATR
TC1301B-FDAVUA
TC1301B-FDAVUATR
TC1301B-FEAVUA
TC1301B-FEAVUATR
TC1301B-FFAVUA
TC1301B-FFAVUATR
TC1301B-FGAVUA
TC1301B-FGAVUATR
TC1301B-FHAVUA
TC1301B-FHAVUATR
TC1301B-GDDVUA
TC1301B-GDDVUATR
TC1301B-GFDVUA
TC1301B-GFDVUATR
TC1301B-GGDVUA
TC1301B-GGDVUATR
TC1301B-GPDVUA
TC1301B-GPDVUATR
TC1301B-GWDVUA
TC1301B-GWDVUATR
TC1301B-UPBVUA
TC1301B-UPBVUATR
TC1301B-UPFVUA
TC1301B-UPFVUATR

TC1301B-UWVUUA
TC1301B-UWVUATR
TC1302A-APVUUA
TC1302A-APVUATR
TC1302A-DTVUUA
TC1302A-DTVUATR
TC1302A-HPVUUA
TC1302A-HPVUATR
TC1302A-IPVUUA
TC1302A-IPVUATR
TC1302B-AFVUUA
TC1302B-AFVUATR
TC1302B-APVUUA
TC1302B-APVUAR
TC1302B-DPVUUA
TC1302B-DPVUATR
TC1302B-DRVUUA
TC1302B-DRVUATR
TC1302B-DSVUUA
TC1302B-DSVUATR
TC1302B-DTVUUA
TC1302B-DTVUATR
TC1302B-FFVUUA
TC1302B-FFVUATR
TC1302B-FPVUUA
TC1302B-FPVUATR
TC1302B-FSVUUA
TC1302B-FSVUATR
TC1302B-FTVUUA
TC1302B-FTVUATR
TC1302B-GDVUUA
TC1302B-GDVUATR
TC1302B-GPVUUA
TC1302B-GPVUATR
TC1302B-HPVUUA
TC1302B-HPVUATR
TC1302B-ICVUUA
TC1302B-ICVUATR
TC1302B-IPVUUA
TC1302B-IPVUATR
TC1302B-USVUUA
TC1302B-USVUATR
TC1320EUA
TC1320EUATR
TC1321EUA
TC1321EUATR
TC1410EUA
TC1410EUA713
TC1410NEUA
TC1410NEUA713
TC1410NVUA
TC1410NVUA713

TC1411EUA
TC1411EUA713
TC1411NEUA
TC1411NEUA713
TC1411NVUA
TC1411NVUA713
TC1411VUA
TC1411VUA713
TC1412EUA
TC1412EUA713
TC1412NEUA
TC1412NEUA713
TC1413EUA
TC1413EUA713
TC1413NEUA
TC1413NEUA713
TC1426CUA
TC1426CUA713
TC1427CUA
TC1427CUA713
TC1428CUA
TC1428CUA713
TC426CUA
TC426CUA713
TC426EUA
TC426EUA713
TC427CUA
TC427CUA713
TC427EUA
TC427EUA713
TC428CUA
TC428CUA713
TC428EUA
TC428EUA713
TC4426ACUA
TC4426ACUA713
TC4426AEUA
TC4426AEUA713
TC4426AVUA
TC4426AVUA713
TC4426CUA
TC4426CUA713
TC4426EUA
TC4426EUA713
TC4426VUA
TC4426VUA713
TC4427AEUA
TC4427AEUA713
TC4427AVUA
TC4427AVUA713
TC4427CUA
TC4427CUA713

TC4427EUA
TC4427EUA713
TC4427VUA
TC4427VUA713
TC4428AEUA
TC4428AEUA713
TC4428AVUA
TC4428AVUA713
TC4428CUA
TC4428CUA713
TC4428EUA
TC4428EUA713
TC4428VUA
TC4428VUA713
TC642BEUA
TC642BEUA713
TC642EUA
TC642EUA713
TC642VUA
TC642VUA713
TC646BEUA
TC646BEUA713
TC646EUA
TC646EUA713
TC646VUA
TC646VUA713
TC647BEUA
TC647BEUATR
TC647EUA
TC647EUATR
TC647VUA
TC647VUATR
TC648BEUA
TC648BEUA713
TC648EUA
TC648EUA713
TC648VUA
TC648VUA713
TC649BEUA
TC649BEUATR
TC649EUA
TC649EUATR
TC649VUA
TC649VUATR
TC650ACVUA
TC650ACVUATR
TC650AEVUA
TC650AEVUATR
TC650AGVUA
TC650AGVUATR
TC650BEVUA
TC650BEVUATR

TC650CGVUA
TC650CGVUATR
TC651ACVUA
TC651ACVUATR
TC651AEVUA
TC651AEVUATR
TC651AGVUA
TC651AGVUATR
TC651BEVUA
TC651BEVUATR
TC651CGVUA
TC651CGVUATR
TC652ACVUA
TC652ACVUATR
TC652AEVUA
TC652AEVUATR
TC652AGVUA
TC652AGVUATR
TC652BEVUA
TC652BEVUATR
TC652BFVUA
TC652BFVUATR
TC652CGVUA
TC652CGVUATR
TC653ACVUA
TC653ACVUATR
TC653AEVUA
TC653AEVUATR
TC653AGVUA
TC653AGVUATR
TC653BEVUA
TC653BEVUATR
TC653BFVUA
TC653BFVUATR
TC653CGVUA
TC653CGVUATR
TC72-2.8MUA
TC72-2.8MUATR
TC72-2.8MUATRB34
TC72-3.3MUA
TC72-3.3MUATR
TC72-5.0MUA
TC72-5.0MUATR
TCN75-3.3MUA
TCN75-3.3MUA713
TCN75-5.0MUA
TCN75-5.0MUA713
TCN75AVUA
TCN75AVUA713