



MICROCHIP

QUALIFICATION PLAN

PCN #: JAON-04PRHD989

**Date:
Apr 29, 2015**

**Qualification of MMT assembly site for selected products in
40L PDIP package using gold (Au) bond wire.**

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Purpose: _____ Qualification of MMT assembly site for selected products in 40L PDIP package using gold (Au) bond wire.

MP code: _____ A7AU24S2XAXC

Part No.: _____ PIC18C452-E/P

BD No: _____ BDM-000758 rev. A (Engineering BD)

CCB No.: _____ 1619

Package:

Type _____ 40L PDIP

Width or Size _____ 600"

Die thickness: _____ 15 mils

Die size: _____ 168.0 x 273.7 mils

Lead frame:

Paddle size: _____ 300 x 300 mils

Material _____ CDA194

Surface _____ Ag spot

Process _____ Etched

Lead Lock _____ Yes

Part Number _____ 10104009

Treatment _____ None

Wire:

Material _____ Au

Die Attach Epoxy:

Part Number _____ CRM-1064L

Conductive _____ Yes

Mold Compound: _____ GE-800

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	30 bonds from a minimum of 5 devices.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	
HTSL (High Temp Storage Life)	+175 C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25C and hot temp. (1 lot to be tested at 125°C)	45	5	1	50	0	10	Must be in progress at time of package release to production, but completion is not required for release to production.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp. (1 lot to be tested at 125°C)	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Unbiased HAST	+130°C/85% RH for 96 hrs. Electrical test pre and post stress at +25°C	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress. (1 lot to be tested at 125°C)	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.