



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: JAON-07XOUF239

Date:

April 02, 2020

Qualification of G600V as an additional/alternative mold compound material for selected products available in 40L PDIP package assembled at MMT assembly site using gold (Au) wire. The selected products available in 8L, 14L, 16L, 18L, 20L, 28L PDIP and 28L SPDIP packages will qualify by similarity (QBS).

Purpose: Qualification of G600V as an additional/alternative mold compound material for selected products available in 40L PDIP package assembled at MMT assembly site using gold (Au) wire. The selected products available in 8L, 14L, 16L, 18L, 20L, 28L PDIP and 28L SPDIP packages will qualify by similarity (QBS).

CCB No.: 4202

<u>Misc.</u>	Assembly site	MMT
	BD Number	BDM-002407/A
	MP Code (MPC)	DECS94S2XAXF
	Part Number (CPN)	PIC18F4685-E/P
<u>Lead-Frame</u>	Paddle size	260x266 mils
	Material	CDA194
	DAP Surface Prep	Ag Spot Plated
	Treatment	None
	Process	Stamped
	Lead-lock	Yes
	Part Number	10104004
	Lead Plating	Matte Tin
	Strip Size	6.24x2.27 inch
	Strip Density	6 units/strip
<u>Bond Wire</u>	Material	Au
<u>Die Attach</u>	Part Number	CRM-1064L
	Conductive	Yes
<u>MC</u>	Part Number	G600V
<u>PKG</u>	PKG Type	PDIP
	Pin/Ball Count	40
	PKG width/size	600 mils

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	Test Site	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	3	15	0 fails after TC	5	MMT/MTAI	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	3	15	0	5	MMT/MTAI	30 bonds from a minimum of 5 devices.
Wire Sweep		5	0	3	15	0		MMT	Required for any reduction in wire bond thickness.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	MMT/ MTAI	
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp.	77	5	3	246	0	10	MTAI	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	MTAI	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.	77	5	3	246	0	15	MTAI	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.