



MICROCHIP

QUALIFICATION REPORT SUMMARY

PCN #: KSRA-21MVRA169

Date:

May 26, 2017

Qualification of MMT assembly site for selected Micrel products available in 20L PDIP package using CRM-1064L die attach and GE800 mold compound material. The 18L PDIP package will qualify by similarity at MMT assembly site.

Device Description:

Device	MIC59P60YN
Mask#	20850
Process	BCDM

Package Information

Package Type	PDIP-20L
Package Body Size	300 mils
Package Code	G6X
MP Codes	208507G6XA01

Subcon Location	MMT (Thailand)
Lead frame	
• Paddle size	160x200 mils
• Material	CDA194
• Surface	Ag Spot Plated
• Treatment	None
• Process	Stamped
• Lead lock	Yes
• Part Number	10102009
Wire	
• Material	Au
Die Attach Epoxy	
• Part Number	CRM-1064L
• Conductive	Yes
Mold Compound	
• Part Number	GE800
Lead finish	100% Matte Tin

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MMT-174100818.000	TMPE217178950.210	1701C35
MMT-174100819.000	TMPE217178950.210	1701C36
MMT-174100820.000	TMPE217178950.210	1701E60

Qualification Data:

PACKAGE QUALIFICATION RESULTS						
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	96 HR Rej / Pass	COMMENTS	
UHAST	JESD22-A118 Ta = +130°C/85%RH	1701C35	MMT-174100818.000	0/82		
		1701C36	MMT-174100819.000	0/82		
		1701E60	MMT-174100820.000	0/82		
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	500 CYC Rej / Pass	COMMENTS	
TEMP CYCLE	JESD22-A104 Ta = -65°C / +150°C	1701C35	MMT-174100818.000	0/82		
		1701C36	MMT-174100819.000	0/82		
		1701E60	MMT-174100820.000	0/82		
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	1008 HR Rej / Pass	COMMENTS	
HTSL	JESD22-A103 Ta = +150°C	1701C35	MMT-174100818.000	0/50		
		1701C36	MMT-174100819.000	0/50		
		1701E60	MMT-174100820.000	0/50		
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	Rej / Pass	Pass/Fail	COMMENTS
Wire Bond Pull	Mil. Std 883, Method 2011	1701C35	MMT-174100818.000	0/35 wires	Pass	
		1701C36	MMT-174100819.000	0/35 wires	Pass	
		1701E60	MMT-174100820.000	0/35 wires	Pass	
TEST DESCRIPTION	METHOD CONDITIONS	TRACE CODE	LOT ID.	Rej / Pass	Pass/Fail	COMMENTS
Wire Bond Shear	AEC-Q100-001	1701C35	MMT-174100818.000	0/35 bonds	Pass	
		1701C36	MMT-174100819.000	0/35 bonds	Pass	
		1701E60	MMT-174100820.000	0/35 bonds	Pass	