




# PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000370

Date: 21APR2016

P1/1

<input checked="" type="checkbox"/>	Semtech Corporation, 200 Flynn Road, Camarillo CA 93012
<input type="checkbox"/>	Semtech Canada Corporation, 4281 Harvester Road, Burlington, Ontario L7L 5M4 Canada
<input type="checkbox"/>	Semtech Irvine, 5141 California Ave., Suite 100, Irvine CA 92617
<input type="checkbox"/>	Semtech Neuchatel Sarl, Route des Gouttes d'Or 40, CH-2000 Neuchatel Switzerland
<input type="checkbox"/>	Nanotech Semiconductor, Semtech Corporation, 2 West Point Court, Bristol, United Kingdom, BS32 4PY
<input type="checkbox"/>	Semtech Corpus Christi SA de CV, Carretera Matamorros Edificio 7, Reynosa, Tamaulipas, Mexico 88780
<input type="checkbox"/>	
Change Details	
<b>Part Number(s) Affected:</b> RCLAMP0512TQTCT RCLAMP3522T.TFT UCLAMP3381P.TFT	<b>Customer Part Number(s) Affected:</b> <input checked="" type="checkbox"/> N/A
<b>Description, Purpose and Effect of Change:</b> Semtech Protection BU is adding Hua Tian Technology (Kunshan) Electronics Co. Ltd as an additional supplier for copper pillar wafer bumping. The current supplier is Semiconductor Manufacturing International Corporation (SMIC).	
<b>Change Classification</b>	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor
<b>Impact to Form, Fit, Function</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Impact to Data Sheet</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>New Revision or Date</b>	<input checked="" type="checkbox"/> N/A
<b>Impact to Performance, Characteristics or Reliability:</b> There is no impact to Performance, Characteristics or Reliability.	
<b>Implementation Date</b>	20JUL2016
<b>Work Week</b>	2918
<b>Last Time Ship (LTS) Of unchanged product</b>	Not Applicable
<b>Affecting Lot No. / Serial No. (SN)</b>	Not Applicable
<b>Sample Availability</b>	21APR2016
<b>Qualification Report Availability</b>	21APR2016
<b>Supporting Documents for Change Validation/Attachments:</b> • Rel Report for Rel Job #6073, 6075 and 6076	
Issuing Authority	
<b>Semtech Business Unit:</b>	Protection
<b>Semtech Contact Info:</b>	Les Fang Yuen Semtech Corporation Sr. Eng Manager, QA 200 Flynn Road Camarillo, CA 93012 Les Fang Yuen@semtech.com Office: (949) 269-4443
	
<b>FOR FURTHER INFORMATION &amp; WORLDWIDE SALES COVERAGE:</b> <a href="http://www.semtech.com/contact/index.html#support">http://www.semtech.com/contact/index.html#support</a>	



## **Design Qualification: RClamp0512TQ**

**(Huatian Cu pillar bumping)**

## **Reliability Qualification Test Final Report**

**Per AEC-Q100**

**March 04, 2016**

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Prepared by:

# of Pages

Approved by:

Yosief Mebrahtu

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Gurmail Sajjan

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Project Title:	Reliability Qualification Test Final Report for RClamp0512TQ Design.
Qualification Type:	New Device (Huatian Cu pillar bumping) qualification per AEC-Q100,  Previously qualified process & previously qualified package.
Process	Protection Product Tower/Palm-E Process  (PAE012T8)
Reliability Rel Job#:	6073

RELIABILITY QUALIFICATION TEST FINAL REPORT FOR  
RClamp0512TQ Design

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## **PURPOSE OF THE QUALIFICATION:**

This is Reliability Qualification Test Final Report for RClamp0512TQ Product based on the Automotive Electronics Council specification number AEC-Q100.

## RELIABILITY TEST PLAN REQUIREMENTS

RELIABILITY TEST PLAN BASE ON 1 LOT REQUIREMENT			
RelTest Category	Sampling Plan/Test Method	Test Method/ Special Notes	Pass/Fail Criteria
1	<b>High Temperature Reverse Bias (HTRB)</b> <ul style="list-style-type: none"> <li>• +150°C for non-power dissipative devices</li> <li>• 77 units / lot</li> <li>• Readouts: 0, 72, 408 hrs</li> <li>• Test before and after HTRB at Room, Hot and Cold</li> </ul>	<ul style="list-style-type: none"> <li>• Per JESD22-A108</li> </ul>	<ul style="list-style-type: none"> <li>• Pass on Zero Fails</li> </ul>
2	<b>High Temperature Storage</b> <ul style="list-style-type: none"> <li>• +150 °C</li> <li>• 45 units / lot</li> <li>• Readouts: 0, 168, 500, 1000 hrs</li> <li>• Test before and after HTS at Room and Hot</li> </ul>	<ul style="list-style-type: none"> <li>• Per JESD22-A103</li> </ul>	<ul style="list-style-type: none"> <li>• Pass on Zero Fails</li> </ul>
3	<b>Pre-Conditioning Level pre +85 °C, 85% RH and T/C</b> <ul style="list-style-type: none"> <li>• Pre-Conditioning Sequence for Level 1 MSL</li> </ul>	<ul style="list-style-type: none"> <li>• Per JESD22-A113</li> </ul>	<ul style="list-style-type: none"> <li>• Pass on Zero Fails</li> </ul>
4	<b>+85 °C, 85% RH</b> <ul style="list-style-type: none"> <li>• Pre-conditioned</li> <li>• +85 °C, 85% RH</li> <li>• 77 units / lot</li> <li>• Duration: 1000 hours</li> <li>• Readout: 0, 168hr, 500hrs, 1000hrs</li> <li>• Test before and after at Room and Hot</li> </ul>	<ul style="list-style-type: none"> <li>• Per JESD22-A110</li> <li>• External Visual per JESD22-B101</li> </ul>	<ul style="list-style-type: none"> <li>• Pass on Zero Fails</li> </ul>
5	<b>Temperature Cycling</b> <ul style="list-style-type: none"> <li>• Pre-conditioned</li> <li>• -65 to +150 °C, Grade 1</li> <li>• 77 units / lot</li> <li>• Readout @ 25 °C: 0, 250, 500 cycle</li> <li>• Test before and after T/C at Room and Hot</li> </ul>	<ul style="list-style-type: none"> <li>• Per JESD22-A104, test condition</li> <li>• External Visual per JESD22-B101</li> </ul>	<ul style="list-style-type: none"> <li>• Pass on Zero Fails</li> </ul>

## Reliability Stress Test Results

Device: RClamp0512TQ

Lot#: AER2871

Date Code: 1544

Test	Method	Condition	Read Point	Sample Size	# of Rejects			Conclusion
					Lot-1	25C	-40C	
HTRB	JESD22-A108	<ul style="list-style-type: none"> <li>+150°C for non-power dissipative</li> <li>77 units / lot</li> <li>Readouts: 0, 72, 408 hrs</li> </ul>	0hr	77	0	0	0	Passed all requirement
			72 hrs	77	0	0	0	
			408 hrs	77	0	0	0	
HTS	JESD22-A103	<ul style="list-style-type: none"> <li>+150 °C</li> <li>45 units / lot</li> <li>Readouts: 0, 250, 500 hrs</li> </ul>	0hr	45	0	0	0	Passed all requirement
			250 hrs	45	0	0	0	
			500 hrs	45	0	0	0	
Pre-Conditioning + Temp. Cycle	JESD22-A113	MSL-1	Pre_elec_precond	77	0	0	0	Passed all requirement
			Precond_tem_cyc_5cyc	77	0	0	0	
			Precond_HTS_24hrs	77	0	0	0	
			Precond_85/85_168hr	77	0	0	0	
			Precond_IR_refl_char	77	0	0	0	
	JESD22-A104	-65°C to +150°C	0cyc	77	0	0	0	Passed all requirement
			250cyc	77	0	0	0	
			500cyc	77	0	0	0	
Pre-Conditioning + +85 °C, 85%RH	JESD22-A113	MSL-1	Pre_elec_precond	77	0	0	0	Passed all requirement
			Precond_tem_cyc_5cyc	77	0	0	0	
			Precond_HTS_24hrs	77	0	0	0	
			Precond_85/85_168hr	77	0	0	0	
			Precond_IR_refl_char	77	0	0	0	
	JESD22-A110	+85 °C, 85% RH	0 hrs	77	0	0	0	Passed all requirement
			168hrs	77	0	0	0	
			500hrs	77	0	0	0	
			1000hrs	77	0	0	0	

## **Conclusion:**

RClamp0512TQ device passed all Reliability Qualification Testing per Automotive Electronics Council specification number AEC-Q100.



# Rel Job Detail Report

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<i>Businessunit</i>	<i>Protection</i>			
<i>Reljob#</i>	<i>Part_Number, Job Name/Type</i>	<i>Fab, Package</i>	<i>Rel Job Status</i>	<i>Key Dates:</i>
6076	uClamp3381P	ASMC12TVS	Rel Testing Complete Passes All Requirements	<i>Job Accepted:</i> 09-Oct-2015
	Package Qual ( Huatian Cu pillar bumping)	SGP1006N2		<i>Requested CD:</i>
	New Product on un-qualified process and unqualified package			<i>Actual Start Date:</i> 30-Sep-2015
				<i>ECD for Conditional:</i>
				<i>Job ECD:</i> 26-Feb-2016

## Completed Tasks

<i>I.O</i>	<i>Lot</i>	<i>AssemblyLot</i>	<i>DateCode</i>				
	AER2867	AER2867	1546				
<i>Seq</i>	<i>TaskCode</i>	<i>SampleSize</i>	<i>Criteria</i>	<i>Complete</i>	<i>Failures</i>	<i>DataSource</i>	<i>Results/Comments</i>
1	Data-Prep	None	None	10-Dec-2015		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	11-Dec-2015	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	13-Jan-2016	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	11-Dec-2015	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	11-Dec-2015	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	14-Dec-2015	0	Camarillo	
7	HTRB_150°C_0408	105	Pass on Zero Fails	04-Jan-2016	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	11-Dec-2015	0	Camarillo	
9	HTS_0168	77	Pass on Zero Fails	18-Dec-2015	0	Camarillo	
10	HTS_0500	77	Pass on Zero Fails	04-Jan-2016	0	Camarillo	
11	HTS_1000	77	Pass on Zero Fails	22-Jan-2016	0	Camarillo	
12	Pre_Conditioning_Level_1	NA	MSL 1	10-Dec-2015		Camarillo	
13	Pre_Elect_Precond	154	Pass on Zero Fails	05-Jan-2016	0	Camarillo	
14	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	05-Jan-2016	0	Camarillo	
15	Precond_HTS_24hr	154	Pass on Zero Fails	06-Jan-2016	0	Camarillo	

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16 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	13-Jan-2016	0	Camarillo
17 Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	13-Jan-2016	0	Camarillo
18 T/C_Pre_Elect	77	Pass on Zero Fails	13-Jan-2016	0	Camarillo
19 T/C_wPre_0250	77	Pass on Zero Fails	19-Jan-2016	0	Camarillo
20 T/C_wPre_0500	77	Pass on Zero Fails	25-Jan-2016	0	Camarillo
21 T/C_wPre_1000	77	Pass on Zero Fails	03-Feb-2016	0	Camarillo
22 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	14-Jan-2016	0	Camarillo
23 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	21-Jan-2016	0	Camarillo
24 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	04-Feb-2016	0	Camarillo
25 85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	25-Feb-2016	0	Camarillo
26 CSAM Analysis	22	Pass on Zero Fails	07-Jan-2016	0	Camarillo
27 Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	07-Jan-2016	0	Camarillo
28 Precond_HTS_24hr	22	Pass on Zero Fails	08-Jan-2016	0	Camarillo
29 Precond_85/85_NoElec168hr	22	Pass on Zero Fails	15-Jan-2016	0	Camarillo
30 Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	15-Jan-2016	0	Camarillo
31 CSAM Analysis	22	Pass on Zero Fails	18-Jan-2016	0	Camarillo
32 Rider_Card_Wash/Bake			09-Dec-2015		Camarillo
33 Pack_Clos	0	0	26-Feb-2016		Camarillo

# Rel Job Detail Report

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<i>Businessunit</i>	<i>Protection</i>			
<i>Reljob#</i>	<i>Part_Number, Job Name/Type</i>	<i>Fab, Package</i>	<i>Rel Job Status</i>	<i>Key Dates:</i>
6075	RClamp3522T	Tower	Rel Testing Complete Passes All Requirements	<i>Job Accepted:</i> 09-Oct-2015
	Package Qual ( Huatian Cu pillar bumping)	SGP1006N3T		<i>Requested CD:</i>
	New Product on qualified process with un-qualified package		0	<i>Actual Start Date:</i> 30-Sep-2015
				<i>ECD for Conditional:</i>
				<i>Job ECD:</i> 09-Oct-2015

## Completed Tasks

<i>I.O</i>	<i>Lot</i>	<i>AssemblyLot</i>	<i>DateCode</i>			
	AER2868	AER2868	1544			
<i>Seq</i>	<i>TaskCode</i>	<i>SampleSize</i>	<i>Criteria</i>	<i>Complete</i>	<i>Failures</i>	<i>DataSource Results/Comments</i>
1	Data-Prep	None	None	17-Nov-2015		Camarillo
2	HTRB_Pre_Elect_150°C_RT24	210	Pass on Zero Fails	15-Dec-2015	0	Camarillo
3	HTRB_150°C_Real Time_0024	210	Pass on Zero Fails	17-Dec-2015	0	Camarillo
4	HTRB_Pre_Elect	105	Pass on Zero Fails	13-Nov-2015	0	Camarillo
5	BI_BD_Valid	NA	Meet HTOL Schematics	13-Nov-2015	0	Camarillo
6	HTRB_150°C_0072	105	Pass on Zero Fails	16-Nov-2015	0	Camarillo
7	HTRB_150°C_0408	105	Pass on Zero Fails	30-Nov-2015	0	Camarillo
8	HTS_Pre_Elect	77	Pass on Zero Fails	13-Nov-2015	0	Camarillo
9	HTS_0168	77	Pass on Zero Fails	20-Nov-2015	0	Camarillo
10	HTS_0500	77	Pass on Zero Fails	07-Dec-2015	0	Camarillo
11	HTS_1000	77	Pass on Zero Fails	04-Jan-2016	0	Camarillo
12	Pre_Conditioning_Level_1	NA	MSL 1	16-Nov-2015		Camarillo
13	Pre_Elect_Precond	154	Pass on Zero Fails	02-Dec-2015	0	Camarillo
14	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	02-Dec-2015	0	Camarillo
15	Precond_HTS_24hr	154	Pass on Zero Fails	03-Dec-2015	0	Camarillo

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16 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	10-Dec-2015	0	Camarillo
17 Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	10-Dec-2015	0	Camarillo
18 T/C_Pre_Elect	77	Pass on Zero Fails	10-Dec-2015	0	Camarillo
19 T/C_wPre_0250	77	Pass on Zero Fails	16-Dec-2015	0	Camarillo
21 T/C_wPre_1000	77	Pass on Zero Fails	04-Jan-2016	0	Camarillo
22 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	10-Dec-2015	0	Camarillo
23 85°C/85%RH_BD_Valid	77	Pass on Zero Fails	10-Dec-2015	0	Camarillo
24 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	17-Dec-2015	0	Camarillo
25 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	04-Jan-2016	0	Camarillo
26 85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	02-Jan-2016	0	Camarillo
27 CSAM Analysis	22	Pass on Zero Fails	08-Dec-2015	0	Camarillo
28 Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	08-Dec-2015	0	Camarillo
29 Precond HTS_24hr	22	Pass on Zero Fails	09-Dec-2015	0	Camarillo
30 Precond_85/85_NoElec168hr	22	Pass on Zero Fails	15-Dec-2015	0	Camarillo
31 Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	15-Dec-2015	0	Camarillo
32 CSAM Analysis	22	Pass on Zero Fails	17-Dec-2015	0	Camarillo
33 Construct_Package	5 unique packaged devices minimum.	No Major Findings, Q&R to review construction analysis report.	02-Dec-2015	0	Camarillo
34 Rider_Card_Wash/Bake	154		01-Dec-2015	0	Camarillo
35 Pack_Clos	0	0	25-Jan-2016		Camarillo

2.0	Lot	AER2869	AssemblyLot	AER2869	DateCode	1546
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Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	09-Dec-2015		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	06-Jan-2016	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	12-Jan-2016	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	10-Dec-2015	0	Camarillo	

# Rel Job Detail Report

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5 BI_BD_Valid	NA	Meet HTOL Schematics	10-Dec-2015	0	Camarillo
6 HTRB_150°C_0072	105	Pass on Zero Fails	14-Dec-2015	0	Camarillo
7 HTRB_150°C_0408	105	Pass on Zero Fails	04-Jan-2016	0	Camarillo
8 HTS_Pre_Elect	77	Pass on Zero Fails	09-Dec-2015	0	Camarillo
9 HTS_0168	77	Pass on Zero Fails	16-Dec-2015	0	Camarillo
10 HTS_0500	77	Pass on Zero Fails	05-Jan-2016	0	Camarillo
11 HTS_1000	77	Pass on Zero Fails	20-Jan-2016	0	Camarillo
12 Pre_Conditioning_Level_1	NA	MSL 1	09-Dec-2015		Camarillo
13 Pre_Elect_Precond	154	Pass on Zero Fails	10-Dec-2015	0	Camarillo
14 Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	10-Dec-2015	0	Camarillo
15 Precond_HTS_24hr	154	Pass on Zero Fails	11-Dec-2015	0	Camarillo
16 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	18-Dec-2015	0	Camarillo
17 Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	18-Dec-2015	0	Camarillo
18 T/C_Pre_Elect	77	Pass on Zero Fails	18-Dec-2015	0	Camarillo
19 T/C_wPre_0500	77	Pass on Zero Fails	05-Jan-2016	0	Camarillo
21 T/C_wPre_1000	77	Pass on Zero Fails	11-Jan-2016	0	Camarillo
22 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	08-Dec-2015	0	Camarillo
23 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	04-Jan-2016	0	Camarillo
24 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	07-Jan-2016	0	Camarillo
25 85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	07-Feb-2016	0	Camarillo
26 CSAM Analysis	22	Pass on Zero Fails	07-Jan-2011		Camarillo
27 Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	07-Jan-2011		Camarillo
28 Precond_HTS_24hr	22	Pass on Zero Fails	08-Jan-2011		Camarillo
29 Precond_85/85_NoElec168hr	22	Pass on Zero Fails	15-Jan-2011		Camarillo
30 Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	15-Jan-2011		Camarillo
31 CSAM Analysis	22	Pass on Zero Fails	18-Jan-2011		Camarillo
32 Rider_Card_Wash/Bake			09-Dec-2015		Camarillo

# Rel Job Detail Report

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33 Pack\_Clos 0 0 18-Feb-2016 Camarillo

3.0 Lot AER2870 AssemblyLot AER2870 DateCode 1546

Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	09-Dec-2015		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	10	Pass on Zero Fails	07-Jan-2016	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	13-Jan-2016	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	10-Dec-2015	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	10-Dec-2015	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	14-Dec-2015	0	Camarillo	
7	HTRB_150°C_0408	105	Pass on Zero Fails	04-Jan-2016	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	09-Dec-2015	0	Camarillo	
9	HTS_0168	77	Pass on Zero Fails	16-Dec-2015	0	Camarillo	
10	HTS_0500	77	Pass on Zero Fails	05-Jan-2016	0	Camarillo	
11	HTS_1000	77	Pass on Zero Fails	20-Jan-2016	0	Camarillo	
12	Pre_Conditioning_Level_1	NA	MSL 1	09-Dec-2015		Camarillo	
13	Pre_Elect_Precond	154	Pass on Zero Fails	10-Dec-2015	0	Camarillo	
14	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	10-Dec-2015	0	Camarillo	
15	Precond_HTS_24hr	154	Pass on Zero Fails	11-Dec-2015	0	Camarillo	
16	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	18-Dec-2015	0	Camarillo	
17	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	18-Dec-2015	0	Camarillo	
18	T/C_Pre_Elect	77	Pass on Zero Fails	18-Dec-2015	0	Camarillo	
20	T/C_wPre_0500	77	Pass on Zero Fails	05-Jan-2016	0	Camarillo	
21	T/C_wPre_1000	77	Pass on Zero Fails	11-Jan-2016	0	Camarillo	
22	85°C/85%RH_W/Pre_Pre Elec	7	Pass on Zero Fails	08-Dec-2015	0	Camarillo	
23	85°C/85%RH_Biased_168hrs	7	Pass on Zero Fails	04-Jan-2016	0	Camarillo	
24	85°C/85%RH_Biased_500hrs	7	Pass on Zero Fails	07-Jan-2016	0	Camarillo	
25	85°C/85%RH_Biased_1000hrs	7	Pass on Zero Fails	07-Feb-2016	0	Camarillo	

