

PRODUCT CHANGE NOTIFICATION PCN-000855.r0

P1/2

Date: 15SEP2022

Semtech Corporation, 200 Flynn Road, Camarillo CA 93012							
			Cha	nge De	etails		
RClamp0524PATCT RClamp0524PBTCT RClamp0524AMTCT RClamp0521PATCT	Part Number(s) Affected: RClamp0524PATCT RClamp0524PBTCT RClamp0524AMTCT RClamp0521PATCT RClamp0521PATCT RClamp3521P.TNT Description, Purpose and Effect of Change:						
•		and Effec	t of Chang	je:			
Due to worldwide lead additional lead frame	Due to worldwide lead frame shortage and to improve flexibility in Semtech's supply chain, Semtech has qualified an additional lead frame supplier for the above listed Semtech part numbers. There is no change in the assembly or test site. Comparison of key attributes between POR = MHT, and HDS lead Frame						
LDF Attribute	POR = MI	HT Leadframe	HDS Lead Fran	ne	Remark		
LDF material	A194 or C	7025	A194 or C7025		No Change		
LDF thickness	0.152mm	or 0.203mm	0.152mm or 0.2	203mm	No Change		
PPF plating thickness	Ni: 0.5-2.0 Pd: 0.02-0 Au: 0.003		Ni: 0.25-1.25um Pd: 0.005-0.02u AuAg: 0.005-0.0	um	MHT lead frame final plating is Au HDS lead frame final plating is AuAg alloy		
Roughness (S-Ratio)	1.15-1.55		1.2-1.5		Comparable		
Anti-EBO	Yes		Yes		Common (coating material may be different due to proprietary material used by each supplier)		
Change Classific	ation	⊠ Maj	or 🗌 Mino	or	Impact to Form, Fit, Function	□ \	∕es ⊠ No
Impact to Data S	heet	☐ Yes	⊠ No	1	New Revision or Date		⊠ N/A
Impact to Perfo	rmanc	e, Charac	teristics o	r Relial	bility:		
	•		acteristics; or or package o		•		
Implementation	Implementation Date					TBD	
Last Time Ship (LTS) Of unchanged product Not Applicable			Applicable	A	Affecting Lot No. / Serial No. (SN)	Not	Applicable
Sample Availability Immediate			mediate		Qualification Report Availability	I	ncluded
Supporting Documents for Change Validation/Attachments: • Final reliability Report: Result = Pass • Solderability Report: Result = Pass							



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MSL1 Report: Result	= Pass	
	Issuing Authority	
Semtech Business Unit:	Protection Business Unit	
Semtech Contact Info:	QA representative: Les Fang Yuen Ifangyuen@semtech.com +1 949-269-4443	Digital signature Les Long yuen
FOR FURTHER INFORMATION & WO	DRLDWIDE SALES COVERAGE: http://www.	semtech.com/contact/index.html#support



	RCLAMP0524PA
Semtech Job#	7472
Accepted Date	10-26-2021
Job Type	Package Qualification
Business Unit	Protection
Package Type	SLP2510P8
Package Lead	4
Assembly Designator	Huatian Xian
Master Process	21C
Fab Designator	ASMC21 TVS
Rel Job Status	Rel Testing Complete Passes All Requirements

Comment:

- Add a second lead frame supplier for RClamp0524PA/RClamp0524PB in HTXA
- RClamp0524AM is qualified by similarity to RClamp0524PA.

Completed Tasks

Sub Lot# Part 1 RClamp0524PA		Lot	Assemb	oly Lot	Date Code
		AER-0085	558 AER-00	08558	2142
Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
1	Data-Prep	None	None	0	02-17-2022
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	0	03-01-2022
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	0	03-02-2022
4	HTRB_Pre_Elect	105	Pass on Zero Fails	0	02-22-2022
5	BI_BD_Valid	NA	Meet HTOL Schematics	0	02-22-2022
6	HTRB_150°C_0072	105	Pass on Zero Fails	0	02-22-2022
7	HTRB_150°C _0408	105	Pass on Zero Fails	0	02-25-2022
8	HTS_Pre_Elect	77	Pass on Zero Fails	0	02-22-2022
9	HTS_0168	77	Pass on Zero Fails	0	02-22-2022
10	HTS_0500	77	Pass on Zero Fails	0	03-01-2022
11	HTS_1000	77	Pass on Zero Fails	0	03-15-2022
12	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	02-25-2022
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	02-25-2022
14	85/85_120hr_On/Off	20	Pass on Zero Fails	0	02-25-2022
15	ROSE Clean/ Test	174	Pass on Zero Fails	0	02-16-2022
16	Pre_Elect_Precond	154	Pass on Zero Fails	0	02-22-2022
17	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	0	02-22-2022
18	Precond_HTS_24hr	154	Pass on Zero Fails	0	02-22-2022
19	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	0	02-23-2022
20	Precond_IR_Refl_Char	154	Pass on Zero Fails	0	03-02-2022
21	T/C Pre Elect	77	Pass on Zero Fails	0	03-02-2022

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
22	T/C_wPre_0250	77	Pass on Zero Fails	0	03-02-2022
23	T/C_wPre_0500	77	Pass on Zero Fails	0	03-08-2022
24	Cross_Section TC 500 Cyc	5	Pass on Zero Fails	0	03-14-2022
25	T/C_wPre_1000	77	Pass on Zero Fails	0	03-14-2022
26	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	03-02-2022
27	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	03-02-2022
28	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	03-03-2022
29	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	03-10-2022
30	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	03-25-2022
31	CSAM Analysis	22	Pass on Zero Fails	0	02-22-2022
32	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	02-22-2022
33	Precond_HTS_24hr	22	Pass on Zero Fails	0	02-22-2022
34	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	02-23-2022
35	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	03-02-2022
36	CSAM Analysis	22	Pass on Zero Fails	0	03-03-2022
37	Pack_Clos	0	0	0	04-15-2022

Sub Lot#	Part	Lot	Assembly L	ot	Date Code
2	RClamp0524PA	AER-0085	59 AER-008559)	2142
Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
1	Data-Prep	None	None	0	02-17-2022
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	0	03-08-2022
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	0	03-09-2022
4	HTRB_Pre_Elect	105	Pass on Zero Fails	0	02-22-2022
5	BI_BD_Valid	NA	Meet HTOL Schematics	0	02-22-2022
6	HTRB_150°C_0072	105	Pass on Zero Fails	0	02-22-2022
7	HTRB_150°C _0408	105	Pass on Zero Fails	0	02-25-2022

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
8	HTS_Pre_Elect	77	Pass on Zero Fails	0	02-22-2022
9	HTS_0168	77	Pass on Zero Fails	0	02-22-2022
10	HTS_0500	77	Pass on Zero Fails	0	03-04-2022
11	HTS_1000	77	Pass on Zero Fails	0	03-15-2022
12	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	03-03-2022
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	03-02-2022
14	85/85_120hr_On/Off	20	Pass on Zero Fails	0	03-03-2022
15	ROSE Clean/ Test	174	Pass on Zero Fails	0	02-16-2022
16	Pre_Elect_Precond	154	Pass on Zero Fails	0	02-22-2022
17	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	0	02-22-2022
18	Precond_HTS_24hr	154	Pass on Zero Fails	0	02-22-2022
19	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	0	02-23-2022
20	Precond_IR_Refl_Char	154	Pass on Zero Fails	0	03-02-2022
21	T/C_Pre_Elect	77	Pass on Zero Fails	0	03-03-2022
22	T/C_wPre_0250	77	Pass on Zero Fails	0	03-03-2022
23	T/C_wPre_0500	77	Pass on Zero Fails	0	03-09-2022
24	Cross_Section TC 500 Cyc	15	Pass on Zero Fails	0	03-14-2022
25	T/C_wPre_1000	77	Pass on Zero Fails	0	03-14-2022
26	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	03-03-2022
27	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	03-02-2022
28	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	03-03-2022
29	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	03-10-2022
30	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	03-24-2022
31	CSAM Analysis	22	Pass on Zero Fails	0	02-22-2022
32	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	02-22-2022
33	Precond_HTS_24hr	22	Pass on Zero Fails	0	02-22-2022
34	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	03-03-2022
35	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	03-02-2022
36	CSAM Analysis	22	Pass on Zero Fails	0	03-03-2022
37	Pack_Clos	0	0	0	04-15-2022

Sub Lot # Part		Lot	Asseml	bly Lot	Date Code	
3	RClamp0524PA	AER-0085	660 AER-0	08560	2142	
Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual	
1	Data-Prep	None	None	0	02-17-2022	
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	0	02-25-2022	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	0	03-01-2022	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	0	02-23-2022	
5	BI_BD_Valid	NA	Meet HTOL Schematics	0	02-22-2022	
6	HTRB_150°C_0072	105	Pass on Zero Fails	0	02-23-2022	
7	HTRB_150°C _0408	105	Pass on Zero Fails	0	03-01-2022	
8	HTS_Pre_Elect	77	Pass on Zero Fails	0	02-22-2022	
9	HTS_0168	77	Pass on Zero Fails	0	02-22-2022	
10	HTS_0500	77	Pass on Zero Fails	0	03-01-2022	
11	HTS_1000	77	Pass on Zero Fails	0	03-15-2022	
12	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	02-25-2022	
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	02-25-2022	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	0	02-25-2022	
15	ROSE Clean/ Test	174	Pass on Zero Fails	0	02-16-2022	
16	Pre_Elect_Precond	154	Pass on Zero Fails	0	02-23-2022	
17	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	0	02-23-2022	
18	Precond_HTS_24hr	154	Pass on Zero Fails	0	02-22-2022	
19	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	0	02-23-2022	
20	Precond_IR_Refl_Char	154	Pass on Zero Fails	0	03-02-2022	
21	T/C_Pre_Elect	77	Pass on Zero Fails	0	03-02-2022	
22	T/C_wPre_0250	77	Pass on Zero Fails	0	03-02-2022	
23	T/C_wPre_0500	77	Pass on Zero Fails	0	03-08-2022	
24	Cross_Section TC 500 Cyc	15	Pass on Zero Fails	0	03-14-2022	
25	T/C_wPre_1000	77	Pass on Zero Fails	0	03-14-2022	
26	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	03-02-2022	
27	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	03-02-2022	

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
28	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	03-03-2022
29	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	03-11-2022
30	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	03-24-2022
31	CSAM Analysis	22	Pass on Zero Fails	0	02-22-2022
32	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	02-22-2022
33	Precond_HTS_24hr	22	Pass on Zero Fails	0	02-22-2022
34	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	02-23-2022
35	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	03-02-2022
36	CSAM Analysis	22	Pass on Zero Fails	0	03-03-2022
37	Pack_Clos	0	0	0	04-15-2022



	TDS2212P					
Semtech Job#	7471					
Accepted Date	10-26-2021					
Job Type	Package Qualification					
Business Unit	Protection					
Package Type	SLP2020P6					
Package Lead	6					
Assembly Designator	Huatian Xian					
Master Process	HP18E80 (0.18um BCD 45V FET)					
Fab Designator	MX					
Rel Job Status	Rel Testing Complete Passes All Requirements					

Comments:

• RClamp0521PA and RClamp3521P are qualified by similarity" to TDS2212P

Completed Tasks

Sub Lot#	Part	Lot	Lot Assembly Lot				
1	TDS2212P	AER-008584	AER-00858	4	2148		
Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual		
1	Data-Prep	None	None	0	01-21-2022		
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	0	02-01-2022		
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	0	02-02-2022		
4	HTRB_Pre_Elect	105	Pass on Zero Fails	0	01-21-2022		
5	BI_BD_Valid	NA	Meet HTOL Schematics	0	01-21-2022		
6	HTRB_150°C_0072	105	Pass on Zero Fails	0	01-21-2022		
7	HTRB_150°C _0408	105	Pass on Zero Fails	0	01-24-2022		
3	HTS_Pre_Elect	77	Pass on Zero Fails	0	01-24-2022		
9	HTS_0168	77	Pass on Zero Fails	0	01-24-2022		
10	HTS_0500	77	Pass on Zero Fails	0	01-31-2022		
11	HTS_1000	77	Pass on Zero Fails	0	02-15-2022		
12	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	01-27-2022		
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	01-26-2022		
14	85/85_120hr_On/Off	20	Pass on Zero Fails	0	01-27-2022		
15	ROSE Clean/ Test	189	Pass on Zero Fails	0	01-21-2022		
16	Pre_Elect_Precond	169	Pass on Zero Fails	0	01-21-2022		
17	Precond_Temp_Cyc_5cyc	159	Pass on Zero Fails	0	01-24-2022		
18	Precond_HTS_24hr	159	Pass on Zero Fails	0	01-24-2022		
19	Precond_85/85_NoElec168hr	159	Pass on Zero Fails	0	01-25-2022		
20	Precond_IR_Refl_Char	159	Pass on Zero Fails	0	02-01-2022		
21	Cross Section	5		0	02-01-2022		

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
22	T/C_Pre_Elect	77	Pass on Zero Fails	0	02-01-2022
23	T/C_wPre_0250	77	Pass on Zero Fails	0	02-01-2022
24	T/C_wPre_0500	77	Pass on Zero Fails	0	02-07-2022
25	Cross_Section TC 500 Cyc	5	Pass on Zero Fails	0	02-14-2022
26	T/C_wPre_1000	77	Pass on Zero Fails	0	02-14-2022
27	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	02-01-2022
28	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	02-02-2022
29	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	02-02-2022
30	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	02-09-2022
31	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	03-03-2022
32	CSAM Analysis	22	Pass on Zero Fails	0	01-26-2022
33	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	01-26-2022
34	Precond_HTS_24hr	22	Pass on Zero Fails	0	01-26-2022
35	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	01-27-2022
36	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	02-03-2022
37	CSAM Analysis	22	Pass on Zero Fails	0	02-07-2022
38	Pack_Clos	0	0	0	03-17-2022

Sub Lot #	Part	Lot		Assembly Lot		Date Code
2 TDS2212P		AER-0	008585	AER-008585		2148
Task#	Task Code		Sample Size	Criteria	Failures	Task On Actual
1	Data-Prep		None	None	0	01-21-2022
2	HTRB_Pre_Elect_150°C_RT24		105	Pass on Zero Fails	0	01-27-2022
3 HTRB_150°C_Real Time_0024		105	Pass on Zero Fails	0	01-27-2022	
4	HTRB_Pre_Elect		105	Pass on Zero Fails	0	01-21-2022
5	BI_BD_Valid		NA	Meet HTOL Schematics	0	01-21-2022
6	HTRB_150°C_0072		105	Pass on Zero Fails	0	01-21-2022

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
7	HTRB_150°C _0408	105	Pass on Zero Fails	0	01-24-2022
8	HTS_Pre_Elect	77	Pass on Zero Fails	0	01-24-2022
9	HTS_0168	77	Pass on Zero Fails	0	01-24-2022
10	HTS_0500	77	Pass on Zero Fails	0	01-31-2022
11	HTS_1000	77	Pass on Zero Fails	0	02-15-2022
12	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	01-26-2022
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	01-26-2022
14	85/85_120hr_On/Off	20	Pass on Zero Fails	0	01-27-2022
15	ROSE Clean/ Test	184	Pass on Zero Fails	0	01-21-2022
16	Pre_Elect_Precond	159	Pass on Zero Fails	0	01-24-2022
17	Precond_Temp_Cyc_5cyc	159	Pass on Zero Fails	0	01-24-2022
18	Precond_HTS_24hr	159	Pass on Zero Fails	0	01-24-2022
19	Precond_85/85_NoElec168hr	159	Pass on Zero Fails	0	01-25-2022
20	Precond_IR_Refl_Char	159	Pass on Zero Fails	0	02-01-2022
21	T/C_Pre_Elect	77	Pass on Zero Fails	0	02-01-2022
22	T/C_wPre_0250	77	Pass on Zero Fails	0	02-01-2022
23	T/C_wPre_0500	77	Pass on Zero Fails	0	02-07-2022
24	Cross_Section TC 500 Cyc	5	Pass on Zero Fails	0	02-15-2022
25	T/C_wPre_1000	77	Pass on Zero Fails	0	02-15-2022
26	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	02-01-2022
27	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	02-01-2022
28	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	02-02-2022
29	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	02-09-2022
30	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	02-23-2022
31	CSAM Analysis	22	Pass on Zero Fails	0	01-26-2022
32	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	01-26-2022
33	Precond_HTS_24hr	22	Pass on Zero Fails	0	01-26-2022
34	Precond 85/85 NoElec168hr	22	Pass on Zero Fails	0	01-27-2022
35	Precond 260°C IR Ref Char	22	Pass on Zero Fails	0	02-03-2022
36	CSAM Analysis	22	Pass on Zero Fails	0	02-07-2022

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
37	Pack_Clos	0	0	0	03-17-2022

Sub Lot#	Part	Lot	Assembly L	ot	Date Code	
3	TDS2212P	AER-008586	AER-00858	6	2148	
Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual	
1	Data-Prep	None	None	0	01-21-2022	
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	0	02-02-2022	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	0	02-02-2022	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	0	01-21-2022	
5	BI_BD_Valid	NA	Meet HTOL Schematics	0	01-21-2022	
6	HTRB_150°C_0072	105	Pass on Zero Fails	0	01-21-2022	
7	HTRB_150°C _0408	105	Pass on Zero Fails	0	01-24-2022	
8	HTS_Pre_Elect	77	Pass on Zero Fails	0	01-24-2022	
9	HTS_0168	77	Pass on Zero Fails	0	01-24-2022	
10	HTS_0500	77	Pass on Zero Fails	0	01-31-2022	
11	HTS_1000	77	Pass on Zero Fails	0	02-15-2022	
12	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	01-27-2022	
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	01-26-2022	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	0	01-27-2022	
15	ROSE Clean/ Test	179	Pass on Zero Fails	0	01-21-2022	
16	Pre_Elect_Precond	159	Pass on Zero Fails	0	01-24-2022	
17	Precond_Temp_Cyc_5cyc	159	Pass on Zero Fails	0	01-24-2022	
18	Precond_HTS_24hr	159	Pass on Zero Fails	0	01-24-2022	
19	Precond_85/85_NoElec168hr	159	Pass on Zero Fails	0	01-25-2022	
20	Precond_IR_Refl_Char	159	Pass on Zero Fails	0	02-01-2022	
21	T/C_Pre_Elect	77	Pass on Zero Fails	0	02-01-2022	
22	T/C_wPre_0250	77	Pass on Zero Fails	0	02-01-2022	

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
23	T/C_wPre_0500	77	Pass on Zero Fails	0	02-07-2022
24	Cross_Section TC 500 Cyc	5	Pass on Zero Fails	0	02-15-2022
25	T/C_wPre_1000	77	Pass on Zero Fails	0	02-15-2022
26	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	02-01-2022
27	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	02-01-2022
28	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	02-02-2022
29	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	02-09-2022
30	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	02-23-2022
31	CSAM Analysis	22	Pass on Zero Fails	0	01-26-2022
32	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	01-26-2022
33	Precond_HTS_24hr	22	Pass on Zero Fails	0	01-26-2022
34	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	01-27-2022
35	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	02-03-2022
36	CSAM Analysis	22	Pass on Zero Fails	0	02-07-2022
37	Pack_Clos	0	0	0	03-17-2022



Qualify HDS as Second Source PPF Lead Frame Summary MSL1 Report.

Les 12JAN2022

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Introduction



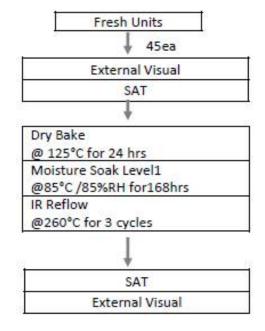
This report do	escribes the MSL1 results captured during HDS publication.	
Conclusion:	HDS Lead Frame passes MSL1 pre-conditioning.	_

Source Information:

UCLAMP1002P.F.P1 AER-008517 MSL1 report (RA2110170N)
UCLAMP1002P.F.P1 AER-008518 MSL1 report (RA2110165N)
UCLAMP1002P.F.P1 AER-008519 MSL1 report (RA2110140N)

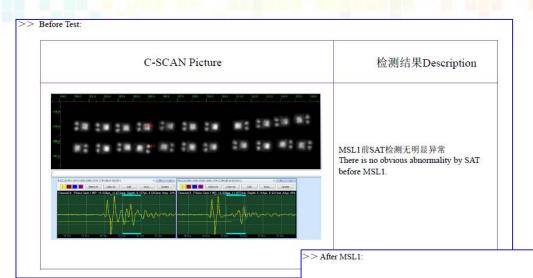
MSL1 Test Flow

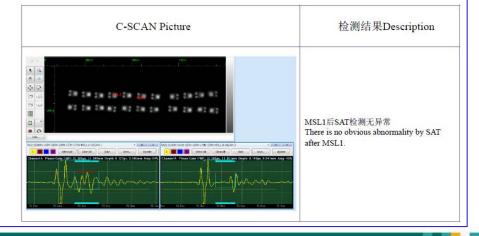




AER-008517 MSL1 Test Report

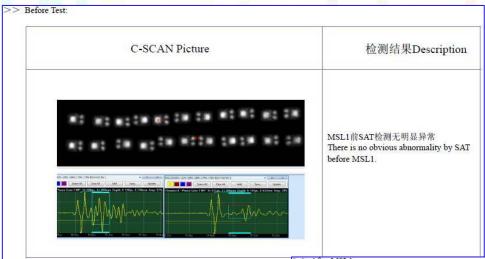




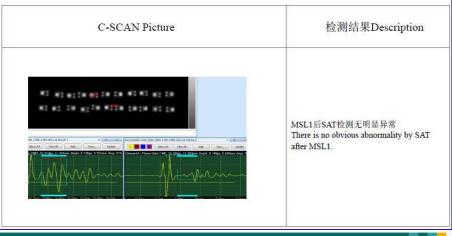


AER-008518 MSL1 Test Report



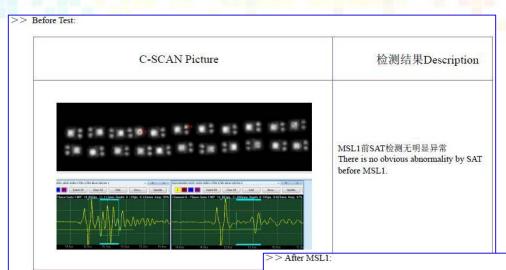


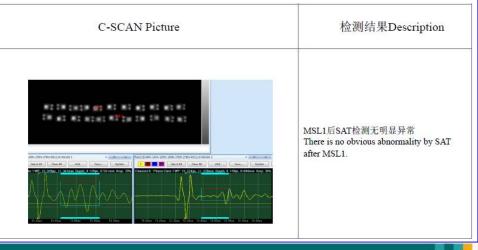
>> After MSL1:



AER-008519 MSL1 Test Report









End of Report



Qualify HDS as Second Source PPF Lead Frame Summary Solderability Report.

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Introduction



This report describes the solderability results captured during
HDS Lead Frame qualification.

☐ Conclusion: HDS Lead Frame passes solderability tests.

Source Information:

AER-008517 HDS LF Solderability test report AER-008518 HDS LF Solderability test report AER-008519 HDS LF Solderability test report

Solderability Test Conditions



4、参数设定 (Parameter enactment):

1) Aging steam: 93°C, 8h

2) Flux Immersion Time: 5 s

3) Solder Temperature: 245 °C ±5 °C

4) Solder Immersion Time: 5±1 Seconds

5) Solder alloy: 95.5%Sn,0.6%Cu,3.9%Ag

5、参考标准 (Test Standard):

The Solderability test method conforms to JESD22-B102.

6、判定依据 (Judge Procedure):

The inspected area of each lead must have 95% solder coverage minimum.

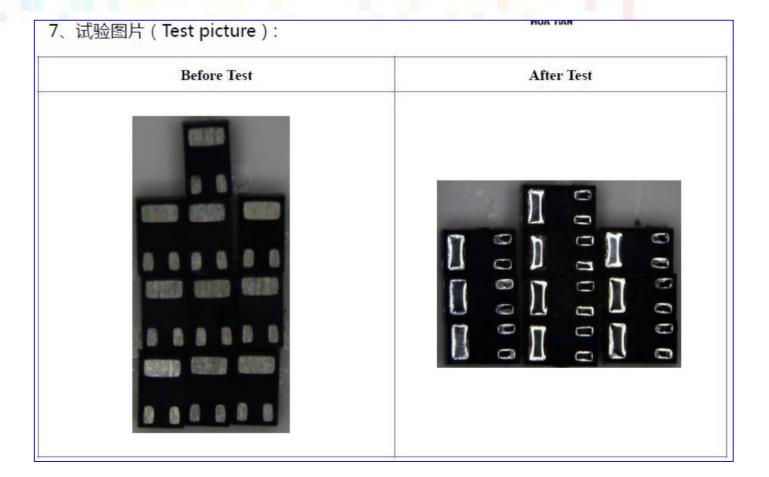
AER-008517 HDS LF Solderability Test



7、试验图片(Test picture): Before Test After Test







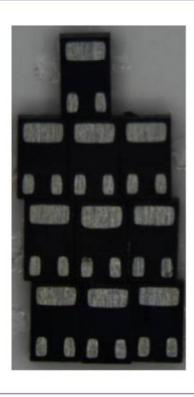
AER-008519 HDS LF Solderability Test

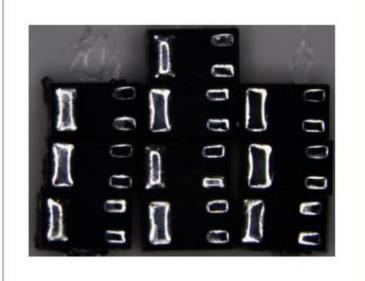


7、试验图片 (Test picture):

Before Test

After Test







END OF PARTY