Change Notification – Cisco R2

Process Change Notification #:   PCN-000218
Original Date Issued: **12/25/2013**
Revision 2 Date Issued: 07/02/2014

R2: Semtech Corporation has extended the implementation date per your request.

Semtech Corporation is providing this Change Notification to our customers notifying the qualification of copper wire bonding at our assembly & test supplier. This change affects the following product.

        Cisco P/N   Semtech P/N
   •   13-1626-01   RClamp0524PATCT

Semtech's Change Evaluation Team has classified this change as major. Specifically, the supplier Diodes has qualified 0.8 mil copper wire to replace 0.8 mil gold wire. This will result in no change to form, fit, function, and reliability or datasheet specifications. Semtech has completed reliability testing of this part number and it meets Semtech's reliability requirements.   Semtech's qualification was completed on September, 25 2013. (Ref: Reliability test report # 5596).

R2: It is Semtech's intention to implement this change to the aforementioned product September 10, 2014, or earlier with your approval, pursuant to the notification guidelines of JEDEC 46 and per PCN agreement between our companies.   After which; aforementioned product will only be offered with copper wire when existing inventory manufactured with gold wire is depleted. Copper wire samples are currently available.

If you wish to acquire samples, please do not hesitate to contact your local Semtech sales representative. The samples will be available now. If you have any questions regarding our qualification requirements, do not hesitate to give me a call.

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by Sublot, by Sequence
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Businessunit	*Protection*			
Reljob#	*Part_Number, Job Name/Type*	*Fab, Package*	*Rel Job Status*	*Key Dates:*

Reljob#	Part_Number, Job Name/Type	Fab, Package	Rel Job Status	Key Dates
5596	RClamp0524PATCT	ASMC21 TVS	Rel Testing Complete Passes All Requirements	*Job Accepted:* 06-Jun-2013
	RClamp0524PA CU Wire Qualification	SLP2510P8		*Requested CD:*
	Misc Rel Job		.	*Actual Start Date:* 06-Jun-2013
				ECD for Conditional:
				Job ECD: 25-Sep-2013

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Completed Tasks

1.0	*Lot*	GADA019505	*AssemblyLot*	AER-001169	*DateCode*	1322

Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	25-Jun-2013		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105		24-Jul-2013	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	26-Jul-2013	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	29-Jun-2013	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	05-Jul-2013	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	08-Jul-2013	0	Camarillo	
8	HTRB_150°C _0408	105	Pass on Zero Fails	22-Jul-2013	0	Camarillo	
9	HTS_Pre_Elect	77	Pass on Zero Fails	29-Jun-2013	0	Camarillo	
10	HTS_0250	77		16-Jul-2013	0	Camarillo	
11	HTS_0500	77	Pass on Zero Fails	22-Jul-2013	0	Camarillo	
12	HTS_1000	77	Pass on Zero Fails	12-Aug-2013	0	Camarillo	
13	85/85_Pre Elec	20	Pass on Zero Fails	17-Jul-2013	0	Camarillo	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	24-Jul-2013	0	Camarillo	
15	Pre_Elect_Precond	154	Pass on Zero Fails	15-Jul-2013	0	Camarillo	
16	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	15-Jul-2013	0	Camarillo	

Rel Job Detail Report

by Sublot, by Sequence
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Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
17	Precond_HTS_24hr	154	Pass on Zero Fails	16-Jul-2013	0	Camarillo	
18	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	23-Jul-2013	0	Camarillo	
19	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	24-Jul-2013	0	Camarillo	
20	T/C_Pre_Elect	77	Pass on Zero Fails	24-Jul-2013	0	Camarillo	
21	T/C_wPre_0250	77	Pass on Zero Fails	30-Jul-2013	0	Camarillo	
22	T/C_wPre_0500	77	Pass on Zero Fails	05-Aug-2013	0	Camarillo	
23	T/C_wPre_1000	77	Pass on Zero Fails	14-Aug-2013	0	Camarillo	
24	HAST Pre_Elect	77	Pass on Zero Fails	24-Jul-2013	0	Camarillo	
25	HAST_wPRE_0200	77	Pass on Zero Fails	05-Aug-2013	0	Camarillo	
26	CSAM Analysis	22	Pass on Zero Fails	17-Jul-2013	0	Camarillo	
27	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	17-Jul-2013	0	Camarillo	
28	Precond_HTS_24hr	22	Pass on Zero Fails	18-Jul-2013	0	Camarillo	
29	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	25-Jul-2013	0	Camarillo	
30	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	25-Jul-2013	0	Camarillo	
31	CSAM Analysis	22	Pass on Zero Fails	29-Jul-2013	0	Camarillo	
32	Construct_Package	5 unique packaged devices minimum.	No Major Findings, Q&R to review construction analysis report.	12-Aug-2013		Camarillo	
33	Pack_Clos	0	0	13-Aug-2013		Camarillo	

2.0	**Lot** GADA019505	**AssemblyLot** AER-001170	**DateCode** 1322				
Seq	**TaskCode**	**SampleSize**	**Criteria**	**Complete**	**Failures**	**DataSource**	**Results/Comments**
1	Data-Prep	None	None	25-Jun-2013		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105		24-Jul-2013	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	26-Jul-2013	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	29-Jun-2013	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	05-Jul-2013	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	09-Jul-2013	0	Camarillo	

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Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
8	HTRB_150°C _0408	105	Pass on Zero Fails	22-Jul-2013	0	Camarillo	
9	HTS_Pre_Elect	77	Pass on Zero Fails	29-Jun-2013	0	Camarillo	
10	HTS_0250	77		16-Jul-2013	0	Camarillo	
11	HTS_0500	77	Pass on Zero Fails	22-Jul-2013	0	Camarillo	
12	HTS_1000	77	Pass on Zero Fails	12-Aug-2013	0	Camarillo	
13	85/85_Pre Elec	20	Pass on Zero Fails	17-Jul-2013	0	Camarillo	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	24-Jul-2013	0	Camarillo	
15	Pre_Elect_Precond	154	Pass on Zero Fails	29-Jun-2013	0	Camarillo	
16	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	01-Jul-2013	0	Camarillo	
17	Precond_HTS_24hr	154	Pass on Zero Fails	02-Jul-2013	0	Camarillo	
18	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	09-Jul-2013	0	Camarillo	
19	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	09-Jul-2013	0	Camarillo	
20	T/C_Pre_Elect	77	Pass on Zero Fails	09-Jul-2013	0	Camarillo	
21	T/C_wPre_0250	77	Pass on Zero Fails	16-Jul-2013	0	Camarillo	
22	T/C_wPre_0500	77	Pass on Zero Fails	24-Jul-2013	0	Camarillo	
23	T/C_wPre_1000	77	Pass on Zero Fails	30-Jul-2013	0	Camarillo	
24	HAST Pre_Elect	77	Pass on Zero Fails	09-Jul-2013	0	Camarillo	
25	HAST_wPRE_0200	77	Pass on Zero Fails	05-Aug-2013	0	Camarillo	
26	Pack_Clos	0	0	13-Aug-2013		Camarillo	

3.0	**Lot** GADA019505	**AssemblyLot** AER-001171	**DateCode** 1322				
Seq	**TaskCode**	**SampleSize**	**Criteria**	**Complete**	**Failures**	**DataSource**	**Results/Comments**
1	Data-Prep	None	None	25-Jun-2013		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105		24-Jul-2013	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	29-Jul-2013	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	29-Jun-2013	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	05-Jul-2013	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	09-Jul-2013	0	Camarillo	

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8	HTRB_150°C _0408	105	Pass on Zero Fails	22-Jul-2013	0	Camarillo	
9	HTS_Pre_Elect	77	Pass on Zero Fails	29-Jun-2013	0	Camarillo	
10	HTS_0250	77		16-Jul-2013	0	Camarillo	
11	HTS_0500	77	Pass on Zero Fails	22-Jul-2013	0	Camarillo	
12	HTS_1000	77	Pass on Zero Fails	12-Aug-2013	0	Camarillo	
13	85/85_Pre Elec	20	Pass on Zero Fails	17-Jul-2013	0	Camarillo	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	24-Jul-2013	0	Camarillo	
15	Pre_Elect_Precond	154	Pass on Zero Fails	29-Jun-2013	0	Camarillo	
16	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	01-Jul-2013	0	Camarillo	
17	Precond_HTS_24hr	154	Pass on Zero Fails	02-Jul-2013	0	Camarillo	
18	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	09-Jul-2013	0	Camarillo	
19	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	10-Jul-2013	0	Camarillo	
20	T/C_Pre_Elect	77	Pass on Zero Fails	10-Jul-2013	0	Camarillo	
21	T/C_wPre_0250	77	Pass on Zero Fails	16-Jul-2013	0	Camarillo	
22	T/C_wPre_0500	77	Pass on Zero Fails	24-Jul-2013	0	Camarillo	
23	T/C_wPre_1000	77	Pass on Zero Fails	30-Jul-2013	0	Camarillo	
24	HAST Pre_Elect	77	Pass on Zero Fails	10-Jul-2013	0	Camarillo	
25	HAST_wPRE_0200	77	Pass on Zero Fails	21-Aug-2013	0	Camarillo	
26	FA_HAST_200	1		21-Aug-2013	0	Camarillo	Rel. Eng.: Reject part after cleand w/ U-sonic and retest passed.
27	Pack_Clos	0	0	22-Aug-2013		Camarillo	