


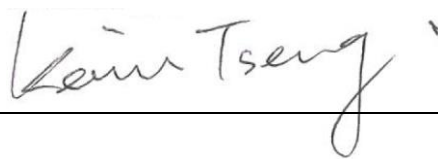
Doc. No. : PCN180902

Date : 2018.09.21

To : Dear Valued Customers

Product/Process Change Notice

We hereby submit PCN for your review and approval.

Application or type : DFN Cu-Leadless package series change supplier.	
Detail of the change : DFN Cu-Leadless package series change gold wire source.	
Reason for the change : This notification is to inform our customers that we will change the gold wire vendor for DFN Cu-Leadless package series. Products there is no change to the product electrical specifications. Reliability reports as attached file. Information of new supplier : Company Name : Sigma Material Tech.Co.Ltd Company Name : Heraeus	
Evaluation items : Part No. affected : DFN Cu-Leadless package series.	
Implemented from : Effective Date : Jan 1 th , 2019	
R&D Dept. Signature : 	QA Dept. Signature : 

Answer To PCN

Please complete the form below duly signed and fax back to Comchip Technology Co.

Please select your answer 1. Approved this PCN 2. Approved this PCN with conditions 3. Disapproved this PCN	Date
	Responsibility By
Please specify the condition or explain the reason if you select 2 or 3.	

Unless a Comchip Technology Co., Ltd. Sales representative is contacted in writing within 30 days of the posting of this notice, all changes described in this announcement are considered approved.

Reliability Test Report

Part NO.: DFN Cu-Leadless package series
Gold wire source: Heraeus 、 Sigma

Date: 2018.08.13

ComChip Technology Co., Ltd.

Add. : No. 586, Jianguo Rd., Yingge Dist.,
New Taipei City 23943, Taiwan

Tel. : 886-2-8677-6675
FAX : 886-2-8677-6672

Reliability Test Summary

Package Type : DFN Cu-Leadless package series

Detail of the change : Gold wire source

Gold wire source: Heraeus · Sigma

No	Test Item	Test Condition	Test Foundation	Quality Level	Test Results
1	Pre-conditioning (SMD qualification parts before test No 3.4.5.6)	Initial Electrical Test Visual Inspection Ta= 125°C Time= 24 hrs Ta= 85 °C RH= 85% Time = 168 hrs 3 reflow cycles using profiles per IPC/JEDEC J-STD-020 Dip 10s flux DI water rinse Room ambient drying Final Electrical Test	JESD22 A-113	Ac/Rj=231/0	PASS
2	Temperature Cycle	-55°C to 150°C dwelled for 5 min and transfer time not exceed 1 min; 1000 cycles	JESD22 A-104	Ac/Rj=77/0	PASS
3	High Humidity High Temp. Reverse Bias	VR= 80% V Ta= 85 °C RH= 85% Test Time=1000hrs	JESD22 A-101	Ac/Rj=77/0	PASS
3 alt	Highly Accelerated Stress Test	VR= 80% V Ta= 130°C RH= 85% Test Time=96 hrs	JESD22 A-110	Ac/Rj=77/0	PASS
4 ※	Intermittent Operational Life	$\Delta T J \geq 125^{\circ}C$ (not to exceed absolute maximum ratings)	MIL-STD-750 Method 1037	Ac/Rj=77/0	PASS
5	Resistance to Solder Heat	Ta= 125°C Time=24hrs Ta= 85 °C RH= 85% Time=168 hrs one inch above the hot solder for 15 s Temp of solder pot=260±5°C Time= 4-6 sec.	JESD22 A-111 (SMD) B-106 (PTH)	Ac/Rj=30/0	PASS
6	Destructive Physical Analysis	per AEC-Q101	AEC-Q101-004 Section 4	Ac/Rj=2/0	PASS
7 #	Wire Bond	per MIL-STD-750 Method 2037	MIL-STD-750 Method 2037	Ac/Rj=5/0	PASS
8 #	Bond Shear	per AEC-Q101	AEC-Q101-003	Ac/Rj=5/0	PASS

Conclusion:

- The total test had 8 item of reability test.
- There were test result of pass.
- alt : Alternative testing requirements.
※ : For schottky and switching parts.
: For Wire bond process.

Approval: Yaowen Chang

Prepare: Judy Lin

Affected Part Numbers

CDSZC01100-HF	CPDQC5V0ESPC-HF	CZRQC52C24A-HF	ACZRQC52C18-HF
CDBZC0130L-HF	CPDQC5V0HE-HF	CZRQC52C27A-HF	ACZRQC52C2-HF
CDBZC0130R-HF	CPDQC5V0-HF	CZRQC52C2A-HF	ACZRQC52C20-HF
CDBZC0230R-HF	CPDQC5V0P-HF	CZRQC52C2V2A-HF	ACZRQC52C22-HF
CPDZC5V0C-HF	CPDQC5V0R-HF	CZRQC52C2V4-HF	ACZRQC52C24-HF
CPDZC5V0HP-HF	CPDQC5V0USP-HF	CZRQC52C2V4A-HF	ACZRQC52C27-HF
CPDZC5V0SPC-HF	CPDQC5V0USP-IPHF	CZRQC52C2V7A-HF	ACZRQC52C2V2-HF
CZRZC52C3V3-HF	ACPDQC24VE-HF	CZRQC52C30A-HF	ACZRQC52C2V4-HF
CZRZC52C4V7-HF	ACPDQC12VE-HF	CZRQC52C33A-HF	ACZRQC52C2V4-HF
CZRZC52C5V1-HF	ACPDQC3V3C-HF	CZRQC52C36A-HF	ACZRQC52C2V7-HF
CZRZC52C5V6-HF	ACPDQC3V3T-HF	CZRQC52C39A-HF	ACZRQC52C3-HF
CZRZC52C6V8-HF	ACPDQC5V0CSP-HF	CZRQC52C3A-HF	ACZRQC52C30-HF
CZRZC52C8V2-HF	ACPDQC5V0ESPC-HF	CZRQC52C3V3A-HF	ACZRQC52C33-HF
CDBQC0130L-HF	ACPDQC5V0HE-HF	CZRQC52C3V6A-HF	ACZRQC52C36-HF
CDBQC0240L-HF	ACPDQC5V0-HF	CZRQC52C3V9A-HF	ACZRQC52C39-HF
CDBQC0240LR-HF	ACPDQC5V0R-HF	CZRQC52C4V3A-HF	ACZRQC52C3V3-HF
ACDBQC0130L-HF	ACPDQC5V0U-HF	CZRQC52C4V7A-HF	ACZRQC52C3V6-HF
ACDBQC0240LR-HF	ACPDQC24VEU-HF	CZRQC52C5V1A-HF	ACZRQC52C3V9-HF
CPDQC24VEU-HF	ACPDQC5V0USP-HF	CZRQC52C5V6A-HF	ACZRQC52C4V3-HF
CPDQC3V3T-HF	ACPDQC5V0P-HF	CZRQC52C6V2A-HF	ACZRQC52C5V1-HF
CPDQC5V0U-HF	ACPDQC5V0USP-IPHF	CZRQC52C6V8A-HF	ACZRQC52C5V6-HF
CPDQC12VE-HF	CZRQC52C10A-HF	CZRQC52C7V5A-HF	ACZRQC52C6V2-HF
CPDQC12VEU-HF	CZRQC52C11A-HF	CZRQC52C8V2A-HF	ACZRQC52C6V8-HF
CPDQC24VE-HF	CZRQC52C12A-HF	CZRQC52C9V1A-HF	ACZRQC52C7V5-HF
CPDQC36V-HF	CZRQC52C13A-HF	ACZRQC52C10-HF	ACZRQC52C8V2-HF
CPDQC36VU-HF	CZRQC52C15A-HF	ACZRQC52C11-HF	ACZRQC52C9V1-HF
CPDQC3V3C-HF	CZRQC52C16A-HF	ACZRQC52C12-HF	CPDA10R3V3U-HF
CPDQC3V3C-HFT	CZRQC52C18A-HF	ACZRQC52C13-HF	CPDA10R5V0P-HF
CPDQC5V0CSP-HF	CZRQC52C20A-HF	ACZRQC52C15-HF	CPDA10R5V0SP-HF
CPDQC5V0CSP-IPHF	CZRQC52C22A-HF	ACZRQC52C16-HF	CPDA10R5V0U-HF