

**APPLICATION NOTE**

## **AN1371: Skyworks CQC Safety Certificate Transitions**

### **Description**

This application note supports Skyworks customers in the successful completion of two transitions related to China Quality Certification (CQC) safety certificates.

The first transition concerns the obsoleted Skyworks CQC GB4943.1-2011 certificates under the Silicon Laboratories, Inc. name and their transition to their respective Skyworks Solutions, Inc. named CQC GB4943.1-2011 certificates.

The second transition is related to the new CQC safety standard GB4943.1-2022, announced on July 19, 2022 by CQC, and its transition from GB4943.1-2011.

### **Key Points**

- CQC certificates
- GB4943.1-2011
- GB4943.1-2022
- Basic Insulation
- Reinforced Insulation

## 1. Skyworks’ CQC Safety Certificates (GB4943.1-2011)

Skyworks acquired the Infrastructure and Automotive business of Silicon Laboratories, Inc. on July 26, 2021. As part of that acquisition, Silicon Laboratories, Inc. executed letters (the “Executed Letters”) with each of the certification companies (UL, CSA, VDE and CQC) (the “Safety Agencies”) stating that Skyworks Solutions, Inc. has authorization to manufacture and provide certificates under the Silicon Laboratories, Inc. name during the transition period to allow time for Skyworks to receive its own certificates from the Safety Agencies. Additionally, this allowed Skyworks customers to continue to use the CQC certificates under the Silicon Laboratories, Inc. name for their certified products during the transition period.

In November 2022, Skyworks completed its own CQC certification process and has its own CQC certificates for all product families previously certified under the Silicon Laboratories, Inc. name. Accordingly, the CQC certificates under the Silicon Laboratories, Inc. name are now obsolete, and Skyworks will no longer support the Silicon Laboratories, Inc. branded CQC certificates. For this reason, please contact the CQC center to complete the transition with Skyworks CQC certificates.

A cross reference for the CQC certificates, between Skyworks Solutions, Inc. and Silicon Laboratories, Inc., is provided in Table 2. Skyworks customers can use this table to find the proper CQC certificates for their products recertification.

## 2. Skyworks’ CQC Safety Certificates (GB4943.1-2022)

The CQC center announced a new GB4943.1-2022 standard on July 19, 2022 to replace the older GB4943.1-2011 standard. Table 1 lists the timeline for the GB4943.1-2022 transition from the older GB4943.1-2011 standard. For more details contact CQC center or refer to the [GB4943.1 Announcement](#).

**Table 1. GB4943.1-2022 Timeline**

Date	Events	Comments
July 19, 2022	GB4943.1-2022 announced	Both GB4943.1-2022 and GB4943.1-2011 certifications are available.
August 1, 2023	GB4943.1-2022 in execution	GB4943.1-2022 certification is in place. GB4943.1-2011 certification is no longer available, and GB4943.1-2011 certificates are invalid. The products already in market are permitted to use GB4943.1-2011 certificates.
July 31, 2024	GB4943.1-2011 Suspension	Old GB4943.1-2011 certificates are suspended
October 31, 2024	GB4943.1-2011 Cancellation	Old GB4943.1-2011 certificates are canceled

### 3. Cross Reference

Table 2 provides a cross reference between Skyworks new replacement CQC certificates and the obsoleted CQC certificates under Silicon Laboratories, Inc.

**Table 2. CQC Certificate Cross Reference**

Product Description	Silicon Laboratories Inc. Obsoleted Certificates (GB4943.1-2011)	Skyworks Solutions Inc. Previous Certificates (GB4943.1-2011)	Skyworks Solutions Inc. Current Certificates (GB4943.1-2022)
Si823x Reinforced Insulation	CQC3001096106	CQC22001345909	CQC22001345909
Si823x Basic Insulation	CQC3001096108	CQC22001345918	CQC22001345918
Si822x Reinforced Insulation	CQC3001096107	CQC22001345914	CQC22001345914
Si822x Basic Insulation	CQC3001096109	CQC22001345915	CQC22001345915
Si86xx Reinforced Insulation	CQC3001096239	CQC22001345903	CQC22001345903
Si86xxx Basic Insulation	CQC3001096110	CQC22001346046	CQC22001346046
Si86xxx Basic Insulation (QSOP16)	CQC6001160195	CQC22001345912	CQC22001345912
Si8239x Reinforced Insulation	CQC6001141999	CQC22001345906	CQC22001345906
Si8239x Basic Insulation	CQC7001177972	CQC22001345913	CQC22001345913
Si8920 Reinforced Insulation	CQC6001142014	CQC22001350075	CQC22001350075
Si827x Basic Insulation	CQC6001160284	CQC22001345905	CQC22001345905
Si875x Basic Insulation	CQC7001177960	CQC22001345904	CQC22001345904
Si88xx Reinforced Insulation	CQC8001207552	CQC22001345917	CQC22001345917
Si828x Reinforced Insulation	CQC8001210119	CQC22001345910	CQC22001345910
Si892/3/4x Reinforced Insulation	CQC9001233627	CQC22001345916	CQC22001345916
Si892/3/4x Basic Insulation	CQC9001233628	CQC22001345902	CQC22001345902
Si823Hx Reinforced Insulation	CQC9001233630	CQC22001345911	CQC22001345911
Si823Hx Basic Insulation	CQC9001233629	CQC22001345908	CQC22001345908
Si8920 Reinforced Insulation	CQC16001141996	CQC22001342764	CQC22001342764
Si87xx Reinforced Insulation	CQC15001121315	CQC22001342758	CQC22001342758
Si87xx Basic Insulation	CQC15001121284	CQC22001342757	CQC22001342757
Si871x/2x Reinforced Insulation	CQC15001121489	CQC22001342762	CQC22001342762
Si871x/2x Basic Insulation	CQC15001121490	CQC22001342751	CQC22001342751
Si86xx Reinforced Insulation	CQC17001178093	CQC22001342761	CQC22001342761
Si86xxx Basic Insulation	CQC19001224600	CQC22001342759	CQC22001342759
Si86xxx Basic Insulation (DFN8)	CQC21001281206	CQC22001342756	CQC22001342756
Si838x Basic Insulation	CQC16001160381	CQC22001342990	CQC22001342990
Si827x Basic Insulation	CQC17001177887	CQC22001342760	CQC22001342760
Si827x Basic Insulation (DFN14)	CQC19001234228	CQC22001342755	CQC22001342755
Si826x Reinforced Insulation	CQC15001121283	CQC22001342754	CQC22001342754
Si826x Basic Insulation	CQC15001121282	CQC22001340279	CQC22001340279
Si823x Reinforced Insulation	CQC17001178087	CQC22001342752	CQC22001342752
Si823x Basic Insulation (DFN14)	CQC18001209373	CQC22001342750	CQC22001342750
Si823x Basic Insulation	CQC19001224601	CQC22001342765	CQC22001342765
Si823Hx Basic Insulation (DFN14)	CQC19001235010	CQC22001342753	CQC22001342753
Si823Hx Basic Insulation (NBSOIC8)	CQC19001235009	CQC22001342763	CQC22001342763

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