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# **CX32L003 Application Note 1**

## **LXT Failure Issue and Workaround Solution**

## 1 Important Notice

The failure issue described below is only on **Rev.B** CX32L003 chip. This issue will be fixed in future revisions.

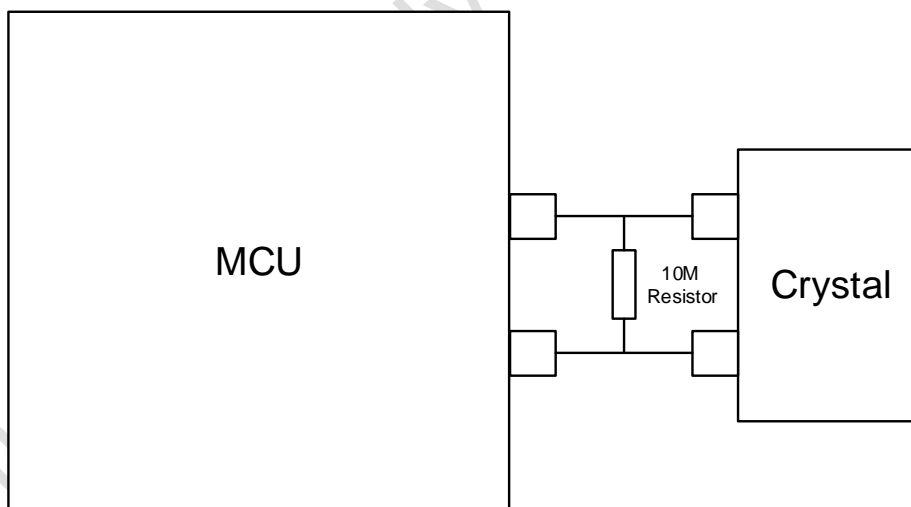
## 2 LXT Failure Issue

LXT can not start up normally at 85 degree temperature and 2.6 / 3.3 Voltage. The failure rate is 100% so that customer must follow the workaround solution if LXT has to be used.

Temp \ Voltage	2.6V	3.3V	5.5V
-40C	pass	pass	pass
0C	pass	pass	pass
25C	pass	pass	pass
50C	pass	pass	pass
85C	fail	fail	pass

## 3 Workaround Solution

The workaound solution for this issue is to connect a 10MΩ resistor between two ends of the external crystal.



Test results with this workaround solution show that LXT failure issue can be avoided.

Temp \ Voltage	2.6V	3.3V	5.5V
-40C	pass	pass	pass
0C	pass	pass	pass
25C	pass	pass	pass
50C	pass	pass	pass
85C	pass	pass	pass

## 4 Revision History

Revision	Issue Date	Change Log
0.1	2019/6/11	Initial Version
0.2	2019/6/11	Add a diagram

Confidential, Only for Rev.B Chip