
CC2480

Reliability Report

CONCLUSION

The CC2480 meets the Texas Instruments product reliability qualification standards based on the procedures and tests documented in the following.

Package reliability (QLP 48 - Pb free)

Test Type	Conditions/Duration	Pass/Fail
Autoclave	121°C, 240 Hrs	77/0
Temp Cycle	-65/+150°C, 1000 Cycles	77/0
High Temp Storage Bake	170C (420 Hrs)	77/0
Operation Life Test	125 C (1070 Hrs)	18/0
Flash Bake Retention	200 C (135 Hrs)	77/0
X-ray	Top side only	10/0
Moisture Sensitivity	level 3 @ 260C peak +0/-5C	12/0

Latch-Up

Latch-up testing according to EIA/JESD-78, class I.

Minimum immunity level: $\pm 100\text{mA}$ at all pins. VDD absolute maximum rating x1.5 at all pins (note that some pins are 1.8v VDD tolerant only).

ESD

ESD testing according to Human Body Model, JEDEC STD 22, method A114 :

< 500V on RF pins (RF_P, RF_N, AVDD_RF1, and AVDD_RF2)

700V on all other pins

ESD testing according to Charged Device Model, JEDEC STD 22, method C101 :

200V on all pins

Summary

The above data show that CC2480 meets the Texas Instruments product reliability qualification standards and has an acceptable level of reliability.

Revision history

1.0 Initial version

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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