

Dear Tim,

Please find our answer to your comments for MOZF01TG/ 2584A – F01TG below "==>".

This is quite urgent project for our client, so please issue us FCC/IC certificate until Feb.1. We truly appreciate for your speedy action.

All revised & additional documents are already uploaded to ATCB web.

1) 15.231 has a 5 second maximum timing requirement, but information in the block diagram and Operational Description mentions a 7 second maximum requirement. Please review.

==> "7 second maximum" is when user is keep pushing the switch. When user release it, it will stop transmitting within 5 seconds. We deleted the "7 second maximum " from the documents.

2) The block diagram should include the oscillator frequency. Please update.

==> Please find revised Block Diagram.

3) Due to recent FCC requirements about proper authority being given to others for FCC and/or IC matters, the agency letter (and confidentiality letters as well) should be signed by someone traceable to have the proper authority. For instance, the FCC site shows Reiko Kagimoto as the correct contact of authority for FCC matters. Therefore the agency letters should be signed by this contact or alternatively a letter showing who he has "deputized" (i.e. Toshihito Kunii) to sign on his behalf may be provided as well. Please see attachments and correct. Additionally note that although UL is authorized as an agent, the FCC has now asked: If a group "entity" is designated as the authorized agent, the letter of authorization must identify those individuals within the group who are authorized to take action on the application; or alternatively a statement must be provided indicating that as the authorized agent, any individual within the group "entity" is authorized to act on behalf of the applicant / grantee and take action on the application.

==> Our client changed the Grantee Code Contact information to Mr.Toshihito Kunii. Please find "ModifyRoutineGrantee.pdf "

Pleas find agent letter from Mr.Toshihito Kunii to our group manager Mr.Naoki Sakamoto.

4) Many of the component values in the parts list and schematics appear to be ranges instead of actual values. Please review/explain as this is unusual.

==>We deleted component values from the schematics and revised the component values in the parts list. The range 10 % is manufacturing variations.

5) Users manual suggests functions beyond what the device contains (back window, panic, trunk). Please review/correct.

==> Please find revised Block Diagram.

6) It appears that QP was used for Fundamental and Harmonics below 1 GHz. For QP detectors to be valid, it must be shown that a 20 Hz. Rep rate on the packets was achieved during test (see 15.35 (a)). If this can not be done, then peak and average measurements should be used. It appears that maybe a rep rate of around 22 Hz may have been used, but this needs to be verified.

==> Already answered. Please find revised test report.

7) Duty cycle information is looking at the fundamental in a 3 kHz RBW. This is only looking at one of the FSK positions of the carrier and not the true overall on/of nature of the fundamental. To obtain a true picture of the fundamental, the RBW should be \gg Bandwidth of the signal and use a 0 Hz span. It is uncertain if correct average information has been supplied. Note that averaging is subtracting a value from the Peak reading. However peak readings are generally taken in 120 kHz for < 1 GHz or 1 MHz for > 1 GHz. However the switching nature between carrier positions of FSK will both occur in < 120 kHz. Therefore looking at only one position of the carrier is actually missing about 50% of the information. Note that if this device is not actually pulsing, an AVG detector may be used instead.

==> [Already answered. Please find revised test report.](#)

Keijiro

UL Japan