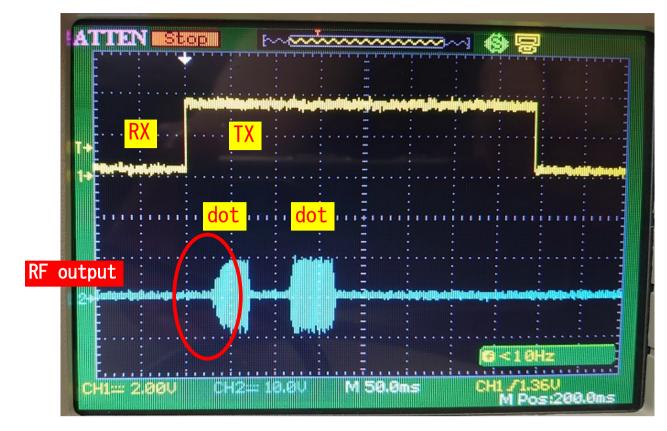
improvement PA Bias power up time

Key Down delay is needed to avoid shortened 1st CW code after rx-tx change over.

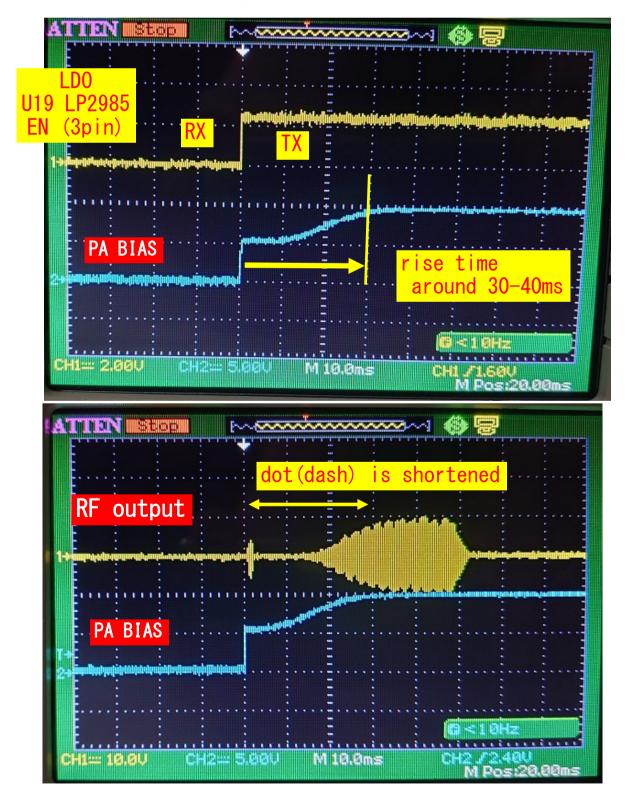
But most CW operaters want to minimize Key Down delay.

I found slow PA Bias power up. The power up time is wanted to be as short as possible to minimize Key Down delay.



Cause: Slow PA Bias power up

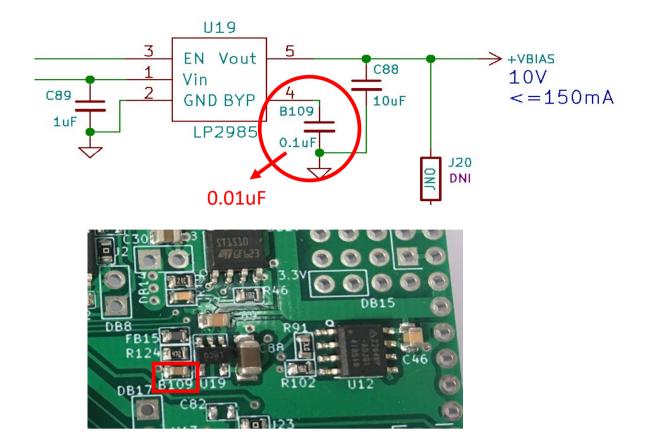
Note : The rise time of PA Bias depends on the individual characteristics of U19 and B109.



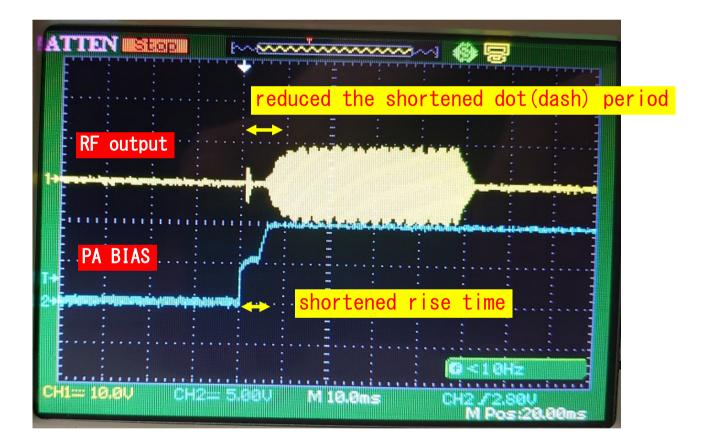
PA Bias circuit improvement

Replace 0.1uF with 0.01uF at B109.

According to TI LP2985 datasheet, 0.01uF(=10nF) is recommended for the BYPASS capacitor. In my test, TDK C1608C0G2A103J080AC is used as the new component.



After replacement



After replacement, if Key Down Delay is set to 10ms or more, the waveform is perfect !

