

Feb. 15th, 2005

Subject: **FCC ID NTAFP101TA**

- 1) The following voltages/current are applied during “off” and “on” periods of the ASK modulation:
 - a) when Tx data=0: $V_c=0V$, $V_b=0.3V$, $V_e=0V$, $I_c=0mA$, Q4 is closed;
 - b) when Tx data=1: $V_c=3V$, $V_b=1.6V$, $V_e=0.8V$, $I_c=11mA$, Q4 is open.

- 2) Frequency is determined and stabilized by a SAW resonator.

A SAW filter at the transmitter output provides suppression of spurious out of band signals.

An RC network at the base of Q4 is used as a spectrum shaper.

The modulation is ASK with an on to off ratio of at least 20 dB. The voltages applied to Q4 define the 1dB compression point of the modulator and limit the output power .

The unit does not have calibration means of output power .