

FCC ID: NTAFP100RA1W

FP100RA 1W reader circuitry description

- The power amplifier is an RF Micro Devices' IC type RF2192. It has 4.8 V supply voltage and draws 340 mA @ +30.5 dBm maximum power at power amplifier output.
 - 2. a. The TX data modulates an ASK modulator at 70 MHz. The modulator output frequency is filtered by a SAW filter (FL6) with a 3 dB bandwidth of 2.5 MHz and up-converted to 912-918 MHz by a PLL synthesizer of 842-848 MHz. Both oscillators are locked to a 16 MHz TCXO with a frequency stability of ±5 PPM. The TX frequency is filtered by a SAW filter (FL5) with a 3 dB bandwidth of 10 MHz. The modulation is ASK with an on-to-off ratio of at least 20 dB.The voltage applied to Q13 together with an RC network at the base of Q13 are used as a spectrum shaper.
 - b. The receiver frequency is down-converted to a 10 MHz IF by mixing it with a 925 MHz oscillator based on a SAW resonator with a frequency stability of ±200 kHz.
 - 3. The device is categorized as fixed.

Sincerely yours,

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