

Theory Of Operation

Trafcon TX3 Transmitter

The TX3 transmitter uses a frequency-modulated crystal-locked PLL and operates between 2.2 and 10VDC at a current of 10 mA nominal. At 3V it delivers (nominally) 0dBm (1mW) RF output.

The data to be transmitted flows through a 27 kHz low pass filter into the modulation circuit which, in turn, drives the PLL circuit. A buffer supplies final output amplification which flows into a bandpass filter to the antenna circuit.