

GrafikT Dimmer Functional Blocks: (Model = GT-RF)

Frequency Table

RF Section

- *Carrier Frequency (f_c) between 431 and 437 MHz (Transmit)
- *Intermediate Frequency (IF) of 203KHz
- *LO Frequency equal to $f_c * IF$ (Receive)
- *3MHz SPI interface (Configuration control from micro controller)
- *62.5KHz bi*directional data

Micro*Controller

- *26MHz Clock
- *13MHz Bus
- *3MHz SPI interface (CC1101)
- *1 MHz SPI Interface (EEPROM)
- *62.5KHz bi*directional data
- *1.0 KHz PWM Signal for LED Brightness Control
- *120Hz Control Signal for Triac (Dimming) Control

Power Supply

- *66 KHz switching signal

