



IDT Technology Limited

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Technial description of THGR238N

THGR238N is an Remote thermo-hygro sensor and transmit data by using 433.92MHz .

After every time of thermo-humid measurement. The data will be transfer to the receiver unit through 433.92MHz. It composes a controller part and a transmitter part. The transmitter is basically a Colipptis oscillator, where C1, C2 and X1 are used to determinate the resonant frequency that is 433.92MHz. Transistor Q1 whose f_T is greater than 6GHz, provides a good frequency response to the circuit. There is a LC filtering circuitry, L1 and C3, that is used to suppress harmonics of the oscillator. An inductor, L3, is employed to match the impedance of the antenna, L4.