



IDT Technology Limited

萬威科研有限公司

## **Technical description of PCR122**

THGN132N is a Remote Pluviometer and transmit data by using 433.92MHz .

After every time of precipitation rain fall 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 C5, C6 and Y1 are used to determinate the resonant frequency that is 433.92MHz. Transistor Q3 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. Capacitances C15 is employed to match the impedance of the antenna.

