



IDT Technology Limited

萬 威 科 研 有 限 公 司

Technical descriptions of BHGR228

BHGR228 is a remote thermo-hygro sensor transmitter. It converts analogue temperature and relative humidity signal into digital signal and transmits via RF channel. It composes a controller part and a transmitter part. The transmitter is basically a Colipitts oscillator, where C1, C2 and X1 are used to determinate the resonant frequency that is 433.92MHz. Transistor Q2 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.