

HIDEKI TIME CORP. LTD.

Technical descriptions of TS02

TS02 is a remote thermo-sensor. It converts analogue temperature signal into digital signal and transmits via RF channel. It composes a controller part and a transmitter part. The transmitter is basically a Colpitts oscillator, where C5, C6, L1 and X1 are used to determinate the resonant frequency that is 433.92MHz. To provide a good frequency characteristic, we add a capacitor C3 parallel to L1. As a result, another resonant circuit is introduced. On the output of Q1, we used a low pass filter to prevent the unwanted signal spurious out.