

### Description:

Refer to the block diagram of the Remote Control Blanket Receiver below. Power is supplied to the receiving and control circuits through a 5.6-Volt zener diode D2, which is not shown in the diagram. Transistor Q1 is the super-regenerative receiving stage, whose frequency can be factory tuned by coil L1. Op-Amp U1 is configured as the detector. Microcontroller U1 converts the PCM data signal and outputs 5 data bits to perform the desired action to control the PTC heat, light LED brightness and drive buzzer sound. Microcontroller U1 also provides two selectable security bits which can be set by the user and match that of the hand-held remote transmitter to be a valid command.

