



RP128KCLP Proximity Keypad description

The product is a proximity keypad which enables the user easily to arm/disarm the security system or to activate/deactivate home appliances and utilities, such as heating & lights, by using a proximity tag.

The keypad involves a 125 kHz transmitter/receiver (Proximity IC), model EM4095, manufactured by EM MICROELECTRONIC – MARIN SA. Transmitter frequency is determined by self resonance of a wound coil antenna having inductance (L1) of 430 microhenry +/-1% and 3 capacitors: resonance capacitor (C7) of 3.9nF +/-5%, one voltage divider capacitor (C4) of 27pF +/-5% and a second voltage divider capacitor (C5) of 1.5nF +/-2%. The oscillating frequency is 100% tested in production to be within 121-129 kHz.

Antenna (Rokonet Cat. No. *396ANT) is a wound coil having exactly 42 turns of 0.18 mm Dia., enameled, wound on a plastic (ABS) rectangular bobbin, slightly rounded at the corners, having internal dimensions of 104.80 (L) x 54.60 (W) x 4.00 (H) mm. Antenna inductance is 430 microhenry +/-1% and Q=27 (typ.) @ 125 kHz. Bobbin is manufactured by Rokonet. Winding of coil is outsourced to Payton Group.