

A temperature-compensated crystal oscillator with controlled piezoresonator contains quartz resonator located in the housing with electrical terminals connected to the quartz piezoelectric element, temperature sensors in the form of thermistors connected in a bridge circuit. In this case, the temperature sensors and the electrical leads of the quartz resonator, connected to the quartz piezoelectric element, a thermal contact are made through their direct connection with the binder heat-conducting element. The output signal of the bridge circuit is connected to the digital-to-analog converter, output signals of which are connected to input ports of the microcontroller. As the quartz resonator used in the piezoelectric resonator with the frequency control, the inductor winding of which is connected to the amplifying element that is connected to the output port of the microcontroller.