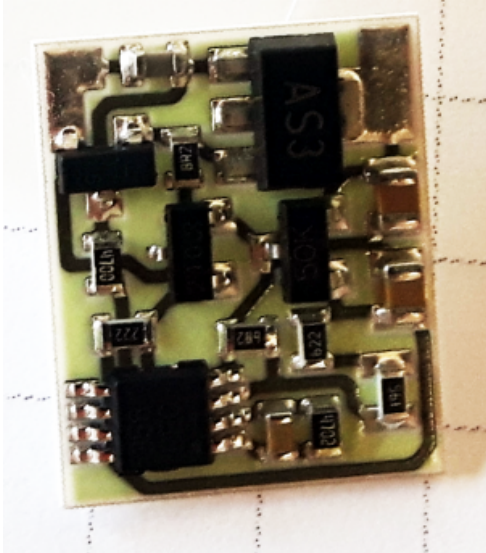


Precision crystal heater 40° QH40A

40,8 °C • +/- 1,5 °C



Description

The precision crystal heater provides temperature stabilisation for crystals. The circuit, which is built on AL₂O₃ ceramic substrate, has to be mounted on the 40 °C thermostat crystal. Then, the crystal is heated to 40.8 °C with a regulation accuracy of better than 0.1 °C. This provides high frequency stability.

The precision crystal heater is an expensive alternative to completely heated oven oscillators (OCXOs). However, the stability values of an OCXO can not be reached.

Applications

- Temperature stabilisation of crystals for high frequency stability

Technical specifications:

Temperatur	40.8 °C +/- 1.5 °C
Regulation accuracy	better 0.1 °C
Supply voltage	+8 ... 12 V DC, use stabilized voltage
Inrush current	typ. 80 mA
Dimensions (mm)	11.5 x 13.8 x 2.4