

## **ABSTRACT**

The present disclosure provides a filter circuit, a heating circuit, and a semiconductor processing apparatus. The filter circuit is connected between the heating source and the load for filtering the load; and includes an inductor branch and a capacitor branch connected in parallel. The inductor branch includes a one-piece structured integrated component, and the integrated component is configured with a transformer function member and an inductor function member. The inductor function member is connected in series between the heating source and the transformer function member for filtering the load; the transformer function member is connected in parallel with the load for transmitting a heating electric signal output by the heating source to the load. The filter circuit provided by the disclosure can not only reduce the volume of the filter circuit, save space, and satisfy the requirement of miniaturization of the filter circuit, but also reduce the number of components in the filter circuit and reduce the device cost of the filter circuit.

Fig. 2.