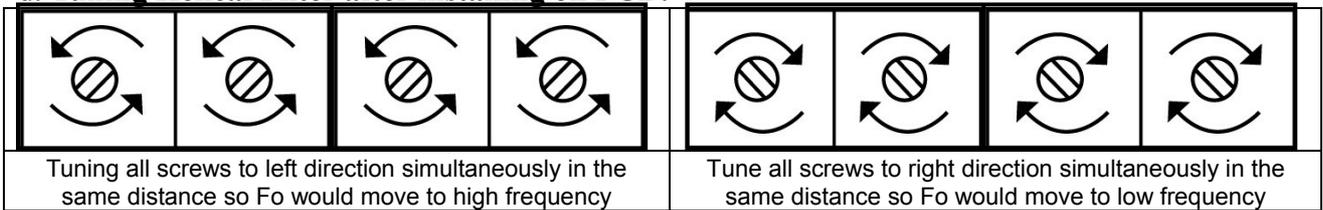


Temwell Toko Type Filter Switch Guide

Temwell Toko Type Filter can present as well as Toko Filter in the performance. Your customers can be easy to adopt into Temwell Toko Type Filter by following steps.

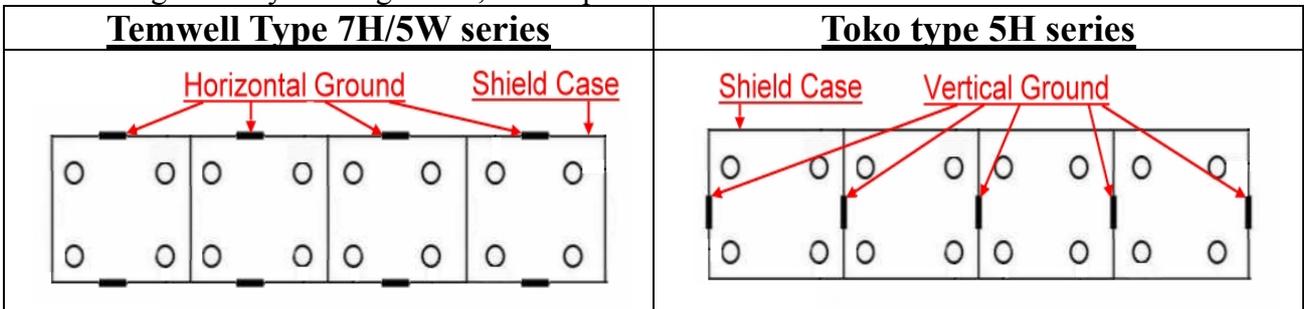
Step:

- a. Please refer to [Temwell Toko Replacement List](#) to find out the correct Temwell Toko Type Filter for replacing Toko Parts No..
- b. Please purchase 10 pcs samples from Temwell to process the switch testing, using S-Parameter to re-design the Match Circuit and make a new PCB. For replacing Toko Filter, Temwell recommends that you should re-design a “Match Circuit” in order to operate Temwell Helical Filter well. If you do the correct match circuit, you will be fine in replacing Toko Filter to Temwell filter. **Pay attention:** if you didn't do the re-design, you may be easy to break Temwell Toko Type Filter by Tuning too many times.
- c. **Soldering Method:** The installing of filters involves two steps. First, reflowing of the SMT components, and then after SMT, inserting of the filters into the PCB and hand soldering. The filters are not exposed to the SMT reflow over.
- d. **Tuning Helical Filter after installing on PCB:**



As you know, how to tune the Filter to match circuit on PCB is very important after the Helical Filter has been installed. The lamped-element of match circuit is always less tolerance. In order to complete match need in tuning the Filter, please pay attention: If you tune only one screw to match, it is “incorrect”, it would break the filter, and the filter would be not able to work anymore.

- e. **Shield Case Ground:** Toko 5H series is Vertical, and Temwell 7H/5W series is Horizontal as following. When you design PCB, it is important to consider the difference.



- f. For Toko SMD Type Filter (CBT13 & CBW13), Temwell can only supply the same performance in Pin Type. We don't provide you the exactly the same size and outcase. So, you must re-design your PCB for installing Temwell Toko Type Filter.
- g. For the screw has enough strength to work under the temperature -30°C ~+60°C without any influence from outside affects, Filters should have standard Screw Torque, which 7H Series is >100mg ° cm for and 5W/ 5R Series are >60mg ° cm.
- h. **Temperature:** Temwell R&D Dept has processed the Temperature test. Temwell Helical Filter accept Operation Temperature: -30°C~+70°C and Storage Temperature: -30°C~+80°C.

Hope all of the above information can help you get used to design in Temwell Helical Filter as a great support. Best Wish.

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