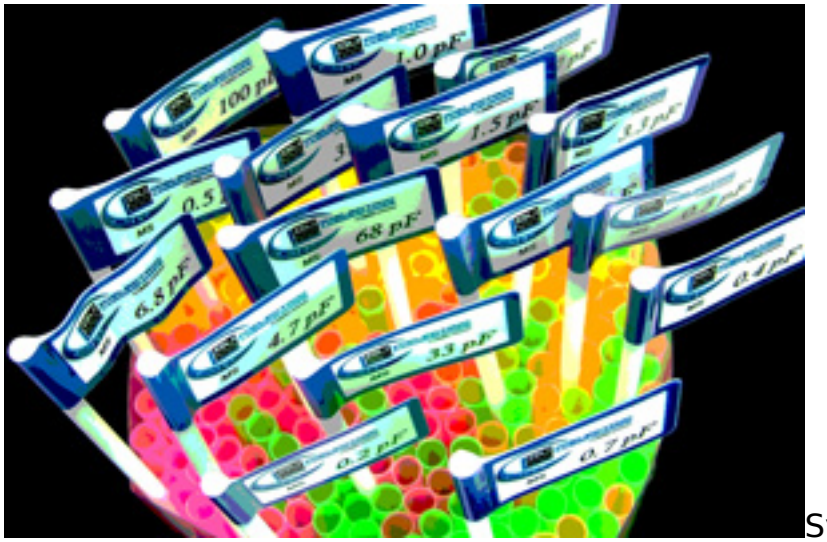
Tuning rod kits aid capacitor selection for RF designs



Syfer Technology announced a set of tuning rod kits created specifically to help RF engineers determine more efficiently and precisely the capacitors they need for their next design. They are classed as design aids and can be supplied free of charge to RF design and test engineers on application. These kits are based on the company's Hi-Q range of capacitors and help speed up the selection of the correct surface mount capacitor for any particular circuit or application. The RF design or test engineer can select a tuning rod, which has attached to it a Syfer High-Q capacitor, from a range of capacitance values, (from 0.1 pF to 100 pF). Typically, an RF engineer might need to "fine tune" a circuit such that he adds or removes capacitance from his circuit by substitution, or by the use of a variable capacitor (trimmer). This is not always practical for a number of reasons, specifically the effort of soldering and de-soldering devices. Through trial and error, using tuning rods with a range of different capacitor values around the nominal value, a single Syfer surface mount capacitor of the optimum value can be determined and eventually installed in the application. One of the easiest ways to check what the optimum value should be is to place another capacitor on top of the existing printed circuit board mounted device, effectively running them in parallel, at the combined capacitance value. The company asserts is most efficiently achieved today by means of the Syfer tuning rod kits. The short probe connections on each side of the chip termination make a solid connection by firm pressure applied by hand. Syfer's Hi-Q capacitor range is available in a variety of case sizes, with exceptionally Hi-Q and low-ESR, designed specifically for high frequency applications, including tuners, resonators, filters, oscillators, RF power amplifiers and tuning networks.

Syfer Technology, www.syfer.com [1]

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