CARRIER CURRENT AND DIGICLOCKS

Q. ***Will the operation of an electronic digital clock be affected by a carrier-current remote control system which injects a 120-kHz signal onto the ac line? Is there some way of keeping the signal from getting to the counters?***

—Allan Silburt, Downsview, Ontario

A. In most cases, the power transformer, which has considerable reactance at 120 kHz, will provide the required rejection. However, if the signal is very strong, it could cause the counting circuitry to act up. If this is the case, install the series-tuned LC trap shown in the figure at the 60-Hz reference tap-off. U,se a 0.02-μF, 75-V ceramic capacitor (Lafayette 33 F 69063) for *C* and a 1-10-mH width coil (Miller 6322, Lafayette 34 F 88525) for *L*. Adjust *L* for normal clock counting.