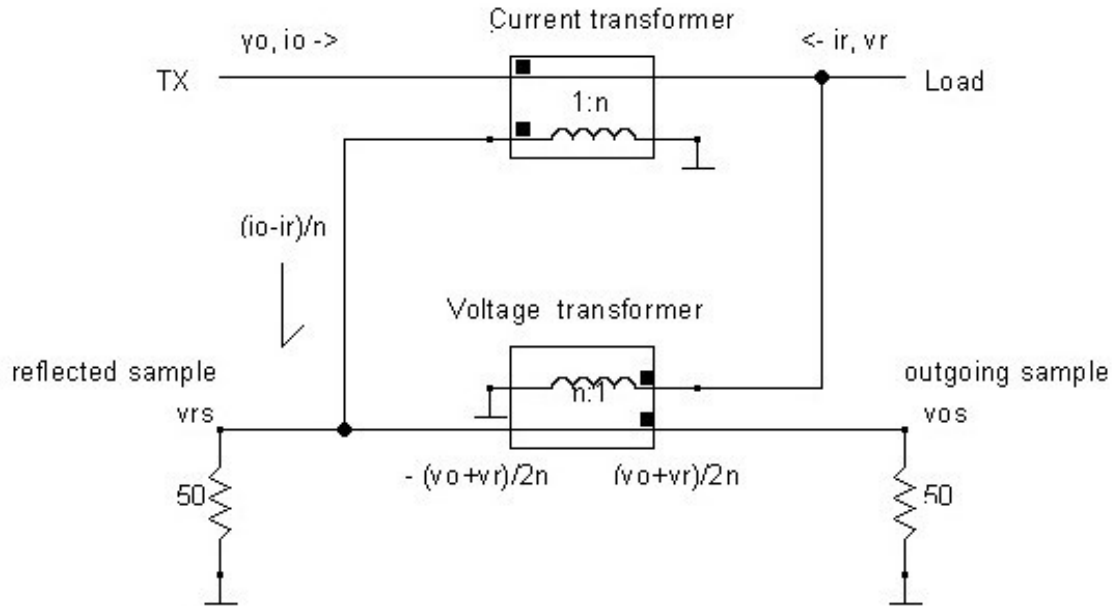


The tandem sampler at a glance

Chuck MacCluer w8mqw



The voltage across the left 50-Ohm resistor is $50(i_o - i_r)/2n - (v_o + v_r)/2n = -v_r/n$, while the voltage across the right is $(v_o + v_r)/2n + 50(i_o - i_r)/2n = v_o/n$.

This sampler will work no matter how the toroid transformers are wound, although the position of the samples or their phases may flip.