s 2011 0172

The invention relates to methods for manufacture of reeled articles with distributed parameters and may be used in the field of designing accurate measurement devices, radio electronics and computer engineering, in the manufacture of phase shifting elements and elements for selecting circuits.

The method for manufacture of a reeled article with $\overline{RC}$ type structure, which is manufactured of n coaxial microwires, with preset electrical parameters, consists in microwires unreeling from releasing bobbins and their reeling onto a metal frame. At the same time is formed a circuit from a harmonic signal source, microwire-releasing bobbins, connected in parallel, electrodes, connected in parallel, each of them forming with the shell of each microwire a sliding electric contact, and a phase meter. During unreeling to the microwire shell portions, which are between the releasing bobbins and the manufactured article, from the signal source is applied a fixed frequency voltage. Further is measured the phase shift between the total vector of the currents, passing through said shell portions, and the total voltage vector between the microwires and the shells of the unreeled microwires and is stopped the unreeling upon attainment of the phase shift of 180° between said total vectors.

Claims: 1
Fig.: 4