

The invention refers to the radio electronics and may be used for introduction of the controllable phase shift on the path of a signal.

Summary of the invention consists in that the phase shifter comprises an operational amplifier 1, a condenser 3 having one contact connected conjointly with one contact of the first resistor 2 to the noninverting input of the amplifier 1, a second resistor 4 having one contact connected to the output of the operational amplifier 1 and the second contact to the inverting input thereof and a third resistor 5 connected between the inverting input of the operational amplifier 1 and input of the phase shifter. The phase shifter additionally comprises a negative resistance converter 6 provided with two output terminals 7 and 8, two input terminals 9 and 10 and a control input 11, as well as a resistor 12 connected to the input terminals 9 and 10 of the converter 6. The output terminal 7 of the converter 6 is connected to the second contact of the first resistor 2, the output terminal 8 is connected to the common electric wire, and the second contact of the condenser 3 is also connected to the input of the phase shifter.

The negative resistance converter 6 possesses a conversion ratio operated in the value range from 0 up to  $-K_0$  through the control input 11 and the value of resistance of the resistor 12, connected to the input terminals 9 and 10 of the converter 6, is selected so that the maximum value of the negative resistance module reproduced by the converter 6 on the output terminals 7 and 8 should be two times greater than the value of resistance of the first resistor 2.

The result of the invention consists in providing the phase shift introduction in the control interval from 0 to  $360^\circ$  on the path of a signal.

Claims: 2

Fig.: 2

