

The proposed low-noise amplifier can be used in input units of radars, specifically in units with extended dynamic range designed for attenuating microwave signals. The amplifier contains a casing with end openings, an input and an output strip doorknob transformer, an input power limiter, at least one amplifier stage, and a secondary power-supply unit. Each doorknob transformer contains a sealed coaxial insert, which is fixed to the end surface of the casing, a sleeve, which encloses the insert, and a waveguide, which is fixed to the end surface of the casing with a possibility of field interaction with the insert and the sleeve. The sleeve is installed in the end opening of the casing. The present invention provides the protection of the amplifier stages against overload and a possibility to extend the dynamic range of the amplifier.