

## SHF RESONATORS ON THE BASIS OF UNIAXIAL HEXAFERRITES WITH DOMAIN STRUCTURE

*V.I. Kostenko, A.M. Sorochak, T.G. Chamor,  
L.V. Chevnyuk*

Taras Shevchenko Kyiv National University  
(64, Volodymyrs'ka Str., Kyiv 01033, Ukraine;  
e-mail: *ctamila@univ.kiev.ua, vikos@univ.kiev.ua*)

### S u m m a r y

We have confirmed experimentally the possibility to use the plates of uniaxial hexaferrites with domain structure as a resonant element for functional units of SHF electronics. It is shown that the  $Q$ -factor of such structures with active element made of barium hexaferrite does not differ in the domain region from that of a resonant element which operates under saturation. We give two versions of the structures of such resonators.