

Abstracts

Reentrant resonators for microwave measurement units

V.B. Romodin and L.V. Shebalkova. "Reentrant resonators for microwave measurement units." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 1365-1368 vol.2.

The method of the calculation of the reentrant resonator based on the rectangular waveguide with inductive diaphragms or posts is demonstrated. The possibility of applying such resonators as sensors for the uninterrupted technological processes is discussed in this paper. The sensors were designed and measured for two operating frequencies in L-band and X-band. The sensitivity of the sensors is sufficient to indicate the changing of the dielectric permeability and testing specimen diameter.

[Return to main document.](#)