Equivalent Sceme and Parameters of Disk Loaded Waveguide with Coupler at Dipole Mode, A.N PARFENOV, V.E. KALJUZHNY, D.V. KOSTIN, S.N. IVANOV, O. N.P. SOBENIN, S.N. YARIGIN, MEPI; A.A. ZAVADTSEV, MPI RAS - The equivalent scheme of the disk loaded waveguide with constant gradient in dipole mode consisting of series and parallel branches is developed. The values of resonant frequencies, coupling coefficients and Q-factors were obtained on the basis of electrodynamic calculations. Contrary to other works the scheme under consideration includes the coupler. The requirements to the parameters of the coupler which provide effective withdrawal of the hybrid mode power are obtained.