

Measurements of unloaded Q-factor of transmission mode dielectric resonators

K. Leong, J. Mazierska and J. Krupka. "Measurements of unloaded Q-factor of transmission mode dielectric resonators." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1639-1642.

A procedure to determine accurately the unloaded Q-factor, resonant frequency and coupling coefficients of a dielectric resonator in the transmission mode has been developed. The technique is based on a derived equation relating S_{21} and Q_L , measurements of S_{21} , S_{11} and S_{22} and accounts for crosstalk, coupling and cable losses.

 [Return to main document.](#)