

Dielectric Resonator $HE_{11\delta+1}$ Mode Coupling to a Shielded Microstrip Line.

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A configuration is presented to effectively couple a dielectric resonator to a microstrip line using the $HE_{11\delta+1}$ mode. For this mode, the resonator acts as a magnetic dipole perpendicular to the resonator axis. The f_0/Q_0 product is improved by about 50 % compared to $TE_{01\delta}$ mode.

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