

Abstracts

A Bandpass Filter Using Electrically Coupled $\text{TM}_{\text{sub } 01\delta}$ Dielectric Rod Resonators

Y. Kobayashi and M. Minegishi. "A Bandpass Filter Using Electrically Coupled $\text{TM}_{\text{sub } 01\delta}$ Dielectric Rod Resonators." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. I [MWSYM]): 507-510.

A compact bandpass filter having Chebyshev, low-loss and good spurious response is constructed by placing high-Q $\text{TM}_{\text{sub } 01\delta}$ dielectric rod resonators coaxially in a $\text{TM}_{\text{sub } 01}$ cutoff circular waveguide. A precise design of the high-Q resonators and interresonator coupling is performed by the mode matching technique. The interresonator coupling is equivalently expressed by a capacitively coupled LC resonant circuit.

[Return to main document.](#)