

Abstracts

Broad-Band Coupling of High-Q Resonant Loads (Jul. 1979 [T-MTT])

S.R. Borgaonkar and S.N. Rao. "Broad-Band Coupling of High-Q Resonant Loads (Jul. 1979 [T-MTT])." 1979 Transactions on Microwave Theory and Techniques 27.7 (Jul. 1979 [T-MTT]): 688-690.

Considering the method of broad-band coupling a series resonant RLC load to a resistive source using a uniform quarter-wave transmission-line inverter, it is shown that the 3-dB bandwidth of the network insertion loss reckoned with respect to a 0-dB loss attains a maximum for a particular value of the center frequency insertion loss in the range 0-3 dB. The center frequency loss and the corresponding value of the maximum 3-dB bandwidth are calculated for various loads and the results graphically presented.

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