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RF and Microwave Circuit Design - Keysight

Clive Poole, Izzat Darwazeh, in Microwave Active Circuit Analysis and Design, 2016.

1.3.3 Capacitors. Capacitors are very widely used in microwave circuits as DC blocking and decoupling elements, as well as reactive elements in filters, tuners, and matching networks.. Ceramic is the most common dielectric for microwave capacitors due to its low loss at high frequencies.

Distributed-element circuit - Wikipedia

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Distributed-element circuits are electrical circuits composed of lengths of transmission lines or other distributed components. These circuits perform the same functions as conventional circuits composed of passive components, such as capacitors, inductors, and transformers.

They are used mostly at microwave frequencies, where conventional components are difficult to implement.

Conventional circuits consist of individual components manufactured separately then connected together with a conductin

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IEEE MTT-S Int Microwave Symp Dig., pp 54- 56, 1981 L -H Hsieh and K Chang, "Slow-wave bandpass filters using ring or stepped impedance hairpin resonators," IEEE Trans Microwave Theory Tech., Vol 50, No 7, pp 1795-1800, July 2002 K C Gupta, R Garg, I Bahl, and P Bhartia, Microstrip Lines and Slotlines, 2nd ed., Artech House, Boston, MA, 19 96, p 181 B C Wadell, Transmission Line Design ...