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Applications of the 90-degree Hybrid.
Extending for broader bandwidth.
The Rat Race coupler.
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Coupling principles - Odd and Even mode impedance.
Directional Coupler Geometric Structure.
Directional Coupler Applications.
Example design walk-through at -6dB coupling.
Practical Limits of Coupler Dimensions on FR-4
Second example design at -12dB coupling.
Frequency Response of the Examples.
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Introduction
Importing a network
Network attributes
Plotting parameters
cascade
media
line
Network set
Network dictionary
Network mean
Network test parameters
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Intro
Theory
Hull
Cavity
Magnetron
Mutual Coupling
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Definition of dB
Example
Voltage Ratios
dBc
Conclusion
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Intro
What is a directional coupler
What is a coupled line
Directional couplers
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Conductors
Skin Effect
Current and Voltage
Dipole
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Intro

Objectives
RF / Microwave Power
Power Generation and Dissipation
A Practical Power Amplifier Topology
Analysis of Current Generator Waveforms
How to Pick the Load Resistor
How to Get the Example File
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Basic Classes of Operation
Device Model
Load Line Utility
Harmonic Balance Simulation
Conclusion
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Redome/Protective Cover
Microwave Frequencies & its Hop length
Microwave Frequency &its Application
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Impedance Matching
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Termination Resistor
Wilkinson Power Divider
Wilkinson Power Divider
Can You Have Unequal Panel Dividers
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Introduction
Audience
Qualifications
Traditional Approach
Simpler Approach
Five Rules
Layers
Two Layers
Four Layers
Stack Up Matters
Use Integrated Components
RF ICS
Wireless Transceiver
Impedance Matching
Use 50 Ohms
Impedance Calculator
PCB Manufacturers Website

What if you need something different
Route RF first
Power first
Examples
GreatFET Project
RF Circuit
RF Filter
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MITRE Tracer
Circuit Board Components
Pop Quiz
BGA7777 N7
Recommended Schematic
Recommended Components
Power Ratings
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Direct or Exact Synthesis
Transfer Function of the Filter
Filter Topologies
Network Transforms
E / M Simulation
Northern Transform
Design of Symmetrical Filters
How to Design RF and Microwave Impedance Matching Networks - How to Design RF and Microwave Impedance Matching Networks by Keysight Design Software 66,388 views 9 years ago 9 minutes, 26 seconds - In this video we cover the following: 1. Review the need for impedance matching in **RF**,/**Microwave**, circuit and system design 2.
select a complex source impedance of 75 plus 10 j ohms
convert this into a microstrip layout by selecting all components
connect the components on a layout
let us stabilize it by adding a resistor in the bias line
leave the source and load impedance at 50 ohms
add an output matching network
select another matching network topology
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Introduction
What is RF Microwave
RF vs Microwave
RF Magic
Venn Diagram
Circuits
Devices
Physics
Finding Real RF Engineers
Conclusion

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Intro
Simple, Broadband RF Detector
Green Flashing LED
Second Green LED
Orange LED
Safe Long Term RF Exposure For Sleeping Areas
Extremely High RF Radiation Levels
Reduce Your Exposure To RF Radiation
Safe And Sound Classic II Broadband RF Detector
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magnetic and electrostatic effects. These are efficient (usually narrow-band) RF generators and still find use in radar, microwave ovens and industrial... 119 KB (15,318 words) - 00:05, 6 March 2024