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HARLAN HOWE, JR. Microwave Associates Burlington, Mass. STRIPLINE CIRCUIT DESIGN OrCAD PCB Designer has the tools and functionality to expertly take your design from concept to final manufacturing files, as well as assist you with your stripline transmission line routing. With OrCAD, you have access to libraries, schematic capture and SPICE tools, as well as all of the PCB layout features that you will need for success. Routing Basics for Stripline Transmission Lines Stripline Crosstalk is unwanted coupled energy between traces. There are two types: forward and backward. This tool calculates backward crosstalk, which is usually the dominant crosstalk component. Stripline - EEWeb the impedance required by the circuit. For the signal trace of width W and thickness T, separated by distance H from a ground (or power) plane by a PCB dielectric with dielectric constant ... MT-094: Microstrip and Stripline Design ... MT-094: Microstrip and Stripline Design - Analog Devices In stripline specifically, the trace width (w), the trace thickness (t), the distance between ground plates (b), and the relative permittivity (better known as DK). When considering differential traces, add the space between traces (s) to this list. ... Stripline Circuit Design, Artech House, Dedham, MA, 1974 DFSI: Easy Stripline Differential Impedance Calculation ... A stripline circuit uses a flat strip of metal which is sandwiched between two parallel ground planes. The insulating material of the substrate forms a dielectric. The width of the strip, the thickness of the substrate and the relative permittivity of the substrate determine the characteristic impedance of the strip which is a transmission line. Stripline - Wikipedia Stripline Design Stripline transmission line requires three layers of conductors where the internal conductor is

commonly called the “hot conductor,” while the other two, always connected at signal ground, are called “cold” or “ground” conductors. Microstrip, Stripline, CPW, and SIW Design

The prototype stripline combline filter was designed on a circuit laminate with relative dielectric constant of 3.38 and thickness of 0.98 mm (RO4003C material from Rogers Corp.). A line width was established at $W = 0.55$ mm with a line length of $L = 20$ mm and trace thickness $t = \mu\text{m}$ for all the filter line elements except the terminating lines.

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