Printed Circuit Board Transmission Lines

Microstrip
Probably most popular PCB transmission line. Easy fabrication and connection, yet is slightly dispersive, lossy, and difficult to analyze.

Stripline
Better than microstrip in that it is not dispersive, and is more easily analyzed. However, fabrication and connection is more difficult.

Coplanar Waveguide
The newest technology. Perhaps easiest to fabricate and connect components, as both ground and conductor are on one side of the board.

Slotline
Essentially, a dual wire transmission line. Best for “balanced” applications. Not used much.