\[ R_s = Z_w = \sqrt{\frac{L}{C_{cm}}} / \sqrt{C_{cm}} \]

\[ Z_w = R_o \]
Printed Capacitor
Printed Inductors
Connectors

1. Wrapped Joints
2. Welded joints
3. Machine soldered
4. Crimped Joints
5. Hand soldered
6. Edge connectors

The graph shows the reliability and unreliability of different types of connectors, with higher numbers indicating less reliability.

- Wrapped Joints: Reliability 3
- Welded joints: Reliability 7
- Machine soldered: Reliability 8
- Crimped Joints: Reliability 10
- Hand soldered: Reliability 55
- Edge connectors: Reliability 30
cross talk $\Rightarrow (\text{Mutual Inductance}) \cdot \frac{di}{dt}$

reduce

reduce
Reduce Loop area
high power line

guard line