

Re: Impedance Matching

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2004-06/1719.html>

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Doug Goncz wrote:

>
> >That makes the 75 ohm look like 120, but doesn't make the 120 look
> >like 75. You can make that series resistor 73.5 ohms and parallel the
> >75 ohm side with 122.5 (or thereabouts) and both sides will match.
> >--
> >John Popelish
>
> Thank you, Professor Popelish! I just learned something and it stuck!

You're welcome. The general formula is at the bottom of:

http://www.epanorama.net/documents/wiring/cable_impedance.html

Unfortunately, they don't give the general formula for the loss introduced by the match, just some examples.

This one includes that (under the section on minimum loss pads).

<http://unitmath.com/um/p/Examples/PulsedPower/Attenuators/Attenuators.html>

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John Popelish