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Base station power module capacitor





Overview

Can only a capacitor be considered as a component?

This means that only a capacitor can be considered as a component, see Formula 1. Path 1 is therefore the resulting interference loop in and around the power module. The equivalent circuit diagram can now be extended by a real component for the branch as follows.

What is a 3G base station converter?

In a 3G Base Station application, two converters are used to provide the +27V distribution bus voltage during normal conditions and power outages.

What is the counterpart of a bridge capacitor?

The counterpart to the bridge capacitor is the coupling capacitance CP to the environment. It is significantly influenced by the distance between the structure and the earth plate, but also by the length of the output lines.

How to calculate parasitic capacitance?

The value of the parasitic capacitance can be calculated using the resonance frequency and the inserted inductance. Due to the output capacitance, both output lines are at the same potential in the high-frequency range so that they can be considered together as a single line for the calculation.



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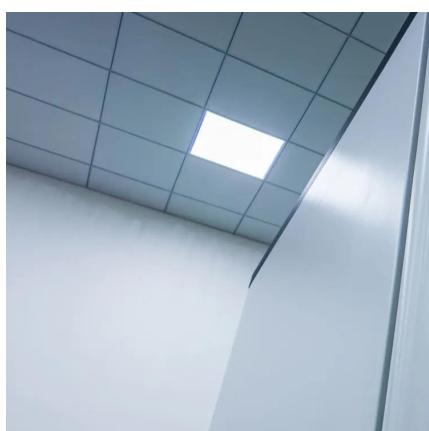


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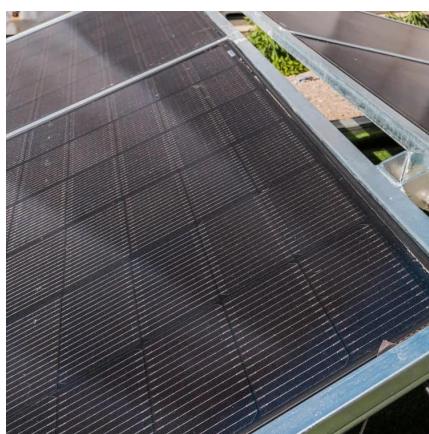
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