



SolarTech Power Solutions

Base station power inductor



Overview

What are power inductors?

Inductors can be further categorized into RF inductors used for signal processing, and power inductors for power supply lines. The power inductors discussed in this section form part of the voltage conversion circuit in a DC-DC converter or other device. Here we will explain the operation of a power inductor in a DC-DC converter.

Are composite inductors the best choice for power?

In summary, composite inductors can be the best choice for power if there is a need for performance and small size. Composite inductors provide the best saturation, temperature stability, and smallest shielded package for power inductors in the range of 0.47 μ H to 150 μ H.

What is included in the power inductor list?

The list includes the inductance at peak current, current rating, total losses, and resulting part temperature for each inductor listed. If you already know the inductance value and current ratings required for your application, enter this information directly into the Power Inductor Finder.

How to choose a power inductor?

Therefore, you must choose a power inductor with an I_{sat} that is greater than the maximum current. At the same time, with regard to the temperature increase rated current, the inductor is not immediately damaged even if the rated value is exceeded. Accordingly, you should select an I_{temp} value which is greater than I_{out} as a general rule.

How to compare power inductor performance?

The primary factors for comparing power inductor performance are the 1) inductance value, 2) DC superposition characteristic, 3) temperature characteristic, 4) voltage endurance, and 5) leakage flux. Knowing these

factors will enable you to select the power inductor structure which is suited to the required level of performance.

What are common inductor parameters?

gnetic field area)Coil length (magnetic field length)N nsCommon inductor parameters are described in more detail below. PermeabilityMagnetic permeability is the ability for a material to respond to magnetic flux, as well as how much magnetic lux that can pass through the inductor within an applied electromagnetic field. Ta

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