Russian Inquiry Micro-module High Density

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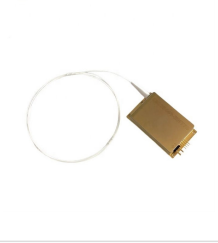
To meet the stringent demands of modern electronic devices in terms of integration density, performance, and the size factor, this paper proposes a design methodology and process ...



Russian Microelectronics is a peer-reviewed journal focusing on technological, physical, and circuit engineering aspects of micro- and nanoelectronics. Features articles on new trends in lithography, ...

This work establishes a new design paradigm for high-density microinductors, addressing the critical need for ultracompact RF electronics in ...

Skutterudite is a rare natural mineral, which is why its laboratory counterpart is used in industry more often. It is more accessible, cheaper and has a higher purity.

Here, we report on flexible micro TEGs with high power density and light weight fabricated via pulse electroplating.

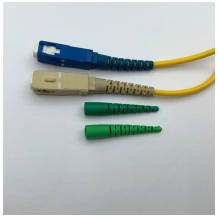
The resulting separation bound-ary between adjacent sections demonstrates high density (about 80% of bulk silver), good electrical and thermal conductivity (about 50% of bulk silver).

In the large irradiated spots, the skyrmioniums are stable, while in the small spots, skyrmions appear. The density of a skyrmions topological charge in the artificial lattice is 25 m2, ...

Peltier microcoolers are applied for thermal stabilization of miniature objects such as solid-state lasers featuring high-density heat flows (up to 20 W /cm 2). Besides, some applications of these modules, ...

This device demonstrates a rarely reported response time, reliability, cooling stability, and high packing density of 5500 leg pairs per cm 2 and a filling factor of around 20%.

RC Module collaborates with leading Russian Universities and has its own University Program. It was established to provide universities with assistance in applying digital signal processing in their course ...



This work establishes a new design paradigm for high-density microinductors, addressing the critical need for ultracompact RF electronics in emerging IoT and 5G/6G applications.

Contact Us

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