
Complementary inverter price

Why are complementary circuits better than unipolar inverters?

Compared to unipolar inverters, where power is constantly dissipated through a load resistance, complementary circuits offer significantly reduced static and dynamic power consumption because one transistor operates in its off state.

How much power does a complementary single-base inverter use?

The static power consumption of the complementary single-base inverter was determined to be 70 nW at $V_{CC} = 2.0$ V; this is mainly governed by the off-state current of the p-type OPBT. The dynamic power uptake at 10 MHz ($V_{CC} = 4.0$ V) is ~350 mW and is determined by the large capacitance of the p-type OPBT.

How to obtain complementary inverters with high gain and high noise margin?

However, to obtain complementary inverters with a high gain, large noise margin and good signal integrity, it is essential to have balanced charge carrier transport in the n-type and p-type transistors.

How are complementary inverters and ring oscillators photographed?

The photographs of the complementary inverters and ring oscillators were taken with an optical microscope (VHX5000 series, Keyence). All the data that support this study are included in this article and its Supplementary Information files. Source data are provided with this paper.

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In this Article, we report integrated organic complementary inverters and complementary organic ring oscillators using n-type organic permeable single- and dual-base ...

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