

These new materials are commonly called "high-k" materials because the symbols "k" and "ε" are often used interchangeably. High-k Materials. Many new materials have been proposed to meet the challenges of high-quality insulator layers for ...

A power amplifier (PA) module of cellular phones was manufactured as a test vehicle of the embedded capacitor applying our new material. The PA module had 7 capacitors and 2 inductors as shown in Figure 6. The 2 capacitors for cutting direct current were embedded in the substrate. The performance of the PA module was measured as listed in Table 5.

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development of a new class of engineering materials for capacitor film applications that will bridge the current performance gap between standard polymers and high- end plastics. By enabling significantly higher film capacitor temperature resistance at lower cost, this new material will be a step change in

Each of these new materials have carved out small niches in the existing marketplace and are driven by high temperature requirements (either processing temperature or ...

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