

# Thin Film Trimmer Capacitors

Thin Film Capacitors are a two pad device for storing a charge of electricity. These devices are composed of thin film layers deposited on a substrate and separated by a dielectric. They range in capacitance of 0.05 pF to 500 mF with a voltage of 2.5 V to 100 V and come in a package size of 0201 to 1210 with a tolerance of  $\pm 0.01$  pF to  $\pm 5\%$ .

Our Thin-Trim capacitors are ideal for applications where size and performance are most critical. These single-turn capacitors exhibit remarkable electrical characteristics for their small size. Useful up to 2 GHz, these trimmers are perfect for low-profile applications.

Each of these film capacitor types will have a different construction to better serve its end application. Exploring film capacitor varieties The film capacitor manufacturing process for three products including plastic box, aluminum can or a customized solution (seen in Figure 2). Within this process, there are key steps to further analyze.

This rework can be avoided by strategic placement of a trimmer capacitor. The Basics of Trimmer Capacitor Design. Trimmer capacitors typically cover a capacitance range of 1 pF to 2 pF but can extend up to 200 pF or more. And while a fixed capacitor is essentially two fixed metal plates - the stator and rotator plates -that hold charge, in ...

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Knowles Trimmers portfolio includes air, glass, sapphire, and PTFE dielectrics that can be used from 1 MHz to over 2 GHz and at voltages up to 20,000 VDC. Trimmers are available in precision Multi-Turn and Half/Single turn formats.

Trimmer Capacitors - Film Dielectric Trimmer / Variable Capacitors are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Trimmer Capacitors - Film Dielectric Trimmer / Variable Capacitors. Skip to Main Content (800) 346-6873. Contact Mouser (USA) (800) 346-6873 | Feedback. Change Location. English. Espa#241;ol \$ USD United States. ...

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Vishay's film capacitors assist energy conversion while providing low losses, high efficiency, and long life. Discover the full range of products with our product overviews: [DC-Link](#) | [RFI](#) | [AC](#)

Trimmers, Film, Capacitors manufactured by Vishay, a global leader for semiconductors and passive electronic components.

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Mouser offers inventory, pricing, & datasheets for Trimmer Capacitors - Film Dielectric Trimmer / Variable Capacitors.

Film Trim Capacitors offer a low cost Variable Trimmer Capacitor alternative. In multiple dielectrics and sizes, and wide capacitance ranges.

Knowles Trimmers portfolio includes air, glass, sapphire, and PTFE dielectrics that can be ...

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Thin-film capacitors were prepared from sputtered tantalum nitride thin films (TaN capacitors). The dielectric was formed by anodic oxidation and the counterelectrode was deposited by evaporation of nichrome-gold. The TaN capacitors excelled the usual TM capacitors in various properties. The temperature coefficient of capacitance was 129 ppm/°C and the dissipation factor was 0.0014 ...

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