Why Choose KEMET

KEMET Electronics Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry, along with an expanding range of electromechanical devices, electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

Trends
- Increasing screen sizes
- Low power
- Weight reduction
- Thinner

Circuit Conditions
- Temperature < 70°C
- T-CON Board Voltage
  - 12 – 15 VDC
  - 30 – 35 VDC
- Component height limitations:
  - ≤ 1.5 mm
  - ≤ 2.0 mm
- Input/output and USB voltage of 3.3 – 5 VDC

Capacitor Requirements
- High capacitance
- Low profile
- High voltage > 16 V
- Long life

Applications
- EMI filters
- Output capacitors
- DC/DC converters
- Decoupling
- Portable electronics
- Telecommunications

Overview

The transition to ultra-high definition displays such as 2K and 4K place more demands on LCD driver circuits. With increasing voltage and decreasing panel thicknesses demands, traditional components are no longer sufficient.

Backlights are generally modulated in the audible frequency range, which can result in noise from X5R and X7R ceramic capacitors. In circuits where piezoelectric noise isn’t acceptable, polymer capacitors offer quiet operation and long life in very slim packages. When 35 – 50 V rated components are needed with low profiles, polymer capacitors can be utilized in place of traditional V-chip aluminum surface mount capacitors.

Feature Highlights

No Piezo Noise
Low Profile
High Capacitance

For more information, samples and engineering kits, please visit us at www.kemet.com or call 1.877.myKEMET.
KEMET Products

<table>
<thead>
<tr>
<th>Product Family</th>
<th>KEMET Series</th>
<th>Voltage</th>
<th>Capacitance</th>
<th>Form Factor</th>
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</thead>
<tbody>
<tr>
<td>Filtering &amp; Decoupling</td>
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<tr>
<td>Multilayer Ceramic</td>
<td>X7R</td>
<td>6.3 – 250 V</td>
<td>10 pF – 47 μF</td>
<td>Surface Mount</td>
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<tr>
<td>Low ESR Polymer</td>
<td>T520, T521</td>
<td>Up to 63 V</td>
<td>Up to 330 μF</td>
<td>Surface Mount</td>
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</tbody>
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Frequently Selected Part Numbers

<table>
<thead>
<tr>
<th>Application Voltage (VDC)</th>
<th>Series</th>
<th>Part Number</th>
<th>Capacitance (μF)</th>
<th>Voltage (VDC)</th>
<th>ESR (mΩ)</th>
<th>Case Size</th>
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