New High Speed Decoupling Device
Proadlizer® PF/B Series

APPLICATION
• High speed and high power CPU decoupling
• EMI solution for 10 MHz range or above
• High switching frequency DC/DC converter output capacitor

FEATURES
• Excellent noise absorption performance at GHz frequency
• High Capacitance and very low ESR based on our Conductive Polymer technology
• Reduction of passive components for decoupling circuit

PERFORMANCE

<table>
<thead>
<tr>
<th>No</th>
<th>Test Item</th>
<th>Performance</th>
<th>Test Condition</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Operating Temperature</td>
<td>56°C to 125°C</td>
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<tr>
<td>2</td>
<td>Rated Voltage</td>
<td>2.0/6.3V</td>
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<tr>
<td>3</td>
<td>Capacitance</td>
<td>±20% of initial specification</td>
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<td>Dissipation Factor</td>
<td>Lower than initial specification</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Rated Voltage</td>
<td>Applied 115% of Rated Voltage at 125°C 1000cycles</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Lifetime</td>
<td>500hour</td>
<td></td>
</tr>
</tbody>
</table>

DIMENSIONS [mm]

LAYOUT LAND PATTERN (Tentative)

PERFORMANCE

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DIMENSIONS [mm]

LAYOUT LAND PATTERN (Tentative)
PART NUMBER SYSTEM

PFB 855320 0E 336 M B

Tape & Roll Carrier
Capacitance tolerance ±20%
Capacitance (336:33µF)
First two digits represent significant figures. Third digit specifies number of zeros to follow.
Rated voltage (0E: 2.5V, 0G: 4V)

MARKING

NEC-TOKIN
OE 107
Rated voltage Capacitance

RATINGS (Initial specification)

<table>
<thead>
<tr>
<th>Rated Voltage (V)</th>
<th>Capacitance (µF)</th>
<th>Dissipation Factor (%)</th>
<th>LC (µA) at100kHz</th>
<th>ESR (mΩ)</th>
<th>Case Code</th>
<th>Part Number</th>
</tr>
</thead>
</table>
| 2.0              | 270              | 5                      | 270              | 50       | 855320    | PFB8553200D277MB
| 2.5              | 33               | 5                      | 41.3             | 50       | 855320    | PFB8553200E336MB
| 2.5              | 100              | 5                      | 125              | 50       | 855320    | PFB8553200E107MB
| 4                | 22               | 5                      | 44               | 50       | 855320    | PFB8553200G226MB
| 4                | 47               | 5                      | 94               | 30       | 855320    | PFB8553200G476MB

Under development

PERFORMANCE (reference)

![Graph of Capacitance vs Frequency](image)

NOTE (reference)

ex.1 Filter circuit design

ex.2 Decoupling circuit design

Precautions

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