

Type THA, ThinPack, Aluminum Electrolytic Capacitor, 85 °C

High Energy Density, REACH and RoHS Compliant



Type THA now has longer life!

At 8.2 mm thin, type THA Thinpack offers the highest energy density available in a low profile aluminum electrolytic. It's ideal for the lowest profile circuits where high capacitance is needed for bulk storage. Look to type THA to replace arrays of SMT solid tantalum or aluminum electrolytic capacitors.

Highlights

- 8.2 mm profile
- Very high energy density (up to 1.1 J/cc)
- 5000 hr life @ 85 °C (All 2020 production and beyond)
- [REACH and RoHS Compliant](#)

Specifications

| Temperature Range | -55 °C to +85 °C ≤300 Vdc; -40 °C to 85 °C ≥350 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------------------------------|------|------|------|------|-------|------|----|----|----|----|----|------------------|------|------|------|------|------|--------------------|------|------|------|------|------|--|--|--|--|--|--------------------|------|------|------|------|----------------------------------|------|------|------|------|-----------------------|--|--|--|--|--|--|--|----------------|----|----|-----|-----|------|------|-------|--------------|------|------|------|------|------|------|------|--------------|------|------|------|------|------|------|------|---------------|------|------|------|------|------|------|------|----------------|------|------|------|------|------|------|------|----------------|------|------|------|------|------|------|------|
| Rated Voltage Range | 10 Vdc to 450 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Range | 60 µF to 18000 µF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | ≤ 0.002 CV µA, @ 25 °C and 5 mins. at rated voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current Multipliers | <table border="1"> <thead> <tr> <th colspan="6">Ambient Temperature Multipliers</th> </tr> <tr> <th>Temp</th> <th>45</th> <th>55</th> <th>65</th> <th>75</th> <th>85</th> </tr> </thead> <tbody> <tr> <td>0-300 VDC</td> <td>1.30</td> <td>1.25</td> <td>1.00</td> <td>0.70</td> <td>0.20</td> </tr> <tr> <td>301-450 VDC</td> <td>1.15</td> <td>1.10</td> <td>1.00</td> <td>0.60</td> <td>0.20</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="5">Ambient Air Temperature Multipliers (No heat sink)</th> </tr> <tr> <th>Air Velocity m/sec</th> <th>0.25</th> <th>1.00</th> <th>2.50</th> <th>5.00</th> </tr> </thead> <tbody> <tr> <td>Ripple Current Multiplier</td> <td>1.00</td> <td>1.20</td> <td>1.40</td> <td>1.50</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="8">Frequency Multipliers</th> </tr> <tr> <th>Rated Vdc/Freq</th> <th>50</th> <th>60</th> <th>120</th> <th>360</th> <th>1000</th> <th>5000</th> <th>20000</th> </tr> </thead> <tbody> <tr> <td>10-35</td> <td>0.72</td> <td>0.77</td> <td>1.00</td> <td>1.06</td> <td>1.06</td> <td>1.10</td> <td>1.10</td> </tr> <tr> <td>36-60</td> <td>0.70</td> <td>0.75</td> <td>1.00</td> <td>1.06</td> <td>1.10</td> <td>1.20</td> <td>1.20</td> </tr> <tr> <td>61-100</td> <td>0.70</td> <td>0.75</td> <td>1.00</td> <td>1.06</td> <td>1.10</td> <td>1.30</td> <td>1.30</td> </tr> <tr> <td>101-300</td> <td>0.70</td> <td>0.75</td> <td>1.00</td> <td>1.20</td> <td>1.45</td> <td>1.70</td> <td>1.70</td> </tr> <tr> <td>301-450</td> <td>0.70</td> <td>0.75</td> <td>1.00</td> <td>1.20</td> <td>1.45</td> <td>1.80</td> <td>1.80</td> </tr> </tbody> </table> | Ambient Temperature Multipliers | | | | | | Temp | 45 | 55 | 65 | 75 | 85 | 0-300 VDC | 1.30 | 1.25 | 1.00 | 0.70 | 0.20 | 301-450 VDC | 1.15 | 1.10 | 1.00 | 0.60 | 0.20 | Ambient Air Temperature Multipliers (No heat sink) | | | | | Air Velocity m/sec | 0.25 | 1.00 | 2.50 | 5.00 | Ripple Current Multiplier | 1.00 | 1.20 | 1.40 | 1.50 | Frequency Multipliers | | | | | | | | Rated Vdc/Freq | 50 | 60 | 120 | 360 | 1000 | 5000 | 20000 | 10-35 | 0.72 | 0.77 | 1.00 | 1.06 | 1.06 | 1.10 | 1.10 | 36-60 | 0.70 | 0.75 | 1.00 | 1.06 | 1.10 | 1.20 | 1.20 | 61-100 | 0.70 | 0.75 | 1.00 | 1.06 | 1.10 | 1.30 | 1.30 | 101-300 | 0.70 | 0.75 | 1.00 | 1.20 | 1.45 | 1.70 | 1.70 | 301-450 | 0.70 | 0.75 | 1.00 | 1.20 | 1.45 | 1.80 | 1.80 |
| Ambient Temperature Multipliers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temp | 45 | 55 | 65 | 75 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-300 VDC | 1.30 | 1.25 | 1.00 | 0.70 | 0.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 301-450 VDC | 1.15 | 1.10 | 1.00 | 0.60 | 0.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient Air Temperature Multipliers (No heat sink) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Air Velocity m/sec | 0.25 | 1.00 | 2.50 | 5.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current Multiplier | 1.00 | 1.20 | 1.40 | 1.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency Multipliers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Vdc/Freq | 50 | 60 | 120 | 360 | 1000 | 5000 | 20000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-35 | 0.72 | 0.77 | 1.00 | 1.06 | 1.06 | 1.10 | 1.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36-60 | 0.70 | 0.75 | 1.00 | 1.06 | 1.10 | 1.20 | 1.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61-100 | 0.70 | 0.75 | 1.00 | 1.06 | 1.10 | 1.30 | 1.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 101-300 | 0.70 | 0.75 | 1.00 | 1.20 | 1.45 | 1.70 | 1.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 301-450 | 0.70 | 0.75 | 1.00 | 1.20 | 1.45 | 1.80 | 1.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Characteristics | Impedance ratio: $Z_{-55\text{ }^\circ\text{C}}/Z_{+25\text{ }^\circ\text{C}}$ @120 Hz ≤10 (5 - 20 Vdc), ≤3 (25 - 300 Vdc) $Z_{-40\text{ }^\circ\text{C}}/Z_{+25\text{ }^\circ\text{C}}$ @120 Hz ≤10 (≥350 Vdc) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC Life Test | 5000 h @ rated voltage at 85 °C Δ Capacitance ±20% (<50 Vdc) Δ Capacitance ±10% (≥50 Vdc) ESR 200% of limit DCL ≤ 0.004 CV µA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life Test | 5 yrs @ 40 °C Capacitance 100% of limit ESR 100% of limit DCL ≤ 0.004 CV µA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Vibration <i>Mounting: Vibration capability is dependent upon mounting restraint.</i> | All Sizes = 10g | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|-----------|--|-----------|--|--|-----------------------|------------|-----------|-----------|-----------|-----------|----------|----------|------|------|------|------|-----------|------|------|------|------|------------|----------|------|------|------|------|-----------|------|------|------|------|
| Vibration Test | <p>Level The specimens, while deenergized or operating under the load conditions specified, shall be subjected to the vibration amplitude, frequency range, and duration specified for each case size.</p> <p>Amplitude The specimens shall be subjected to a simple harmonic motion having an amplitude of either 0.06-inch double amplitude (maximum total excursion) or peak level specified above, whichever is less. The tolerance on vibration amplitude shall be ±10 percent.</p> <p>Frequency Range The vibration frequency shall be varied logarithmically between the approximate limits of 10 to 2,000 Hz.</p> <p>Sweep Time and Duration The entire frequency range of 10 to 2,000 Hz and return to 10 Hz shall be traversed in 20 minutes. This cycle shall be performed 12 times in each of three mutually perpendicular directions (total of 36 times), so that the motion shall be applied for a total period of approximately 12 hours. Interruptions are permitted provided the requirements for rate of change and test duration are met.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thermal Resistance | <table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="4">Thermal Resistance (°C/W) by Case Length</th> </tr> <tr> <th># of Sides heatsinked</th> <th>Insulation</th> <th>36.4 (mm)</th> <th>45.9 (mm)</th> <th>53.8 (mm)</th> <th>66.5 (mm)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">One Side</td> <td>Bare can</td> <td>5.42</td> <td>4.27</td> <td>3.65</td> <td>2.96</td> </tr> <tr> <td>Polyester</td> <td>6.60</td> <td>5.20</td> <td>4.44</td> <td>3.60</td> </tr> <tr> <td rowspan="2">Both Sides</td> <td>Bare can</td> <td>4.36</td> <td>3.41</td> <td>2.90</td> <td>2.34</td> </tr> <tr> <td>Polyester</td> <td>4.95</td> <td>3.87</td> <td>3.30</td> <td>2.66</td> </tr> </tbody> </table> | | | Thermal Resistance (°C/W) by Case Length | | | | # of Sides heatsinked | Insulation | 36.4 (mm) | 45.9 (mm) | 53.8 (mm) | 66.5 (mm) | One Side | Bare can | 5.42 | 4.27 | 3.65 | 2.96 | Polyester | 6.60 | 5.20 | 4.44 | 3.60 | Both Sides | Bare can | 4.36 | 3.41 | 2.90 | 2.34 | Polyester | 4.95 | 3.87 | 3.30 | 2.66 |
| | | Thermal Resistance (°C/W) by Case Length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # of Sides heatsinked | Insulation | 36.4 (mm) | 45.9 (mm) | 53.8 (mm) | 66.5 (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| One Side | Bare can | 5.42 | 4.27 | 3.65 | 2.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Polyester | 6.60 | 5.20 | 4.44 | 3.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Both Sides | Bare can | 4.36 | 3.41 | 2.90 | 2.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Polyester | 4.95 | 3.87 | 3.30 | 2.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Typical Weight | Case AA - 14g, Case AB - 16g, Case AC - 18g, Case AD - 20g | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminals | 20 AWG copper wire with tin electroplate, 15 amps max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case Material | Aluminum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current Capability | The max ripple current capability is set by the target core temperature of 85 °C. The Peak to Peak ac must be less than Vr/5. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Air Cooled | The ripple currents in the ratings tables are for 65 °C ambient temperatures. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heatsink Cooled | <p>Temperature rise from the hottest internal spot, the core, to ambient air is</p> $\Delta T = I^2(\text{Max ESR})(\theta_{cc} + \theta_{ca}),$ <p>recommended max ΔT of 20 °C where θ_{cc} is the thermal resistance from core to case and θ_{ca} from case to ambient. To calculate maximum ripple capability with the THA attached to a heatsink use the maximum core temperature and the values for θ_{cc}.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Example | <p>As an illustration, suppose you operate a noninsulated THA132M060AAOC in 65 °C air and attach it to a commercial heatsink with a free-air thermal resistance of 2.7 °C/W. Use a good thermal grease between the capacitor and the heatsink, and the total thermal resistance is 2.7 + 5.42 or 8.12 °C/W. The power which would heat the core to 85 °C is (85 - 65)/8.12 or 2.46 W. For an ESR of 117 mΩ, 2.46 W equates to a ripple current of 4.58 A.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Part Numbering System

| | | | | | | |
|------|--|---------------|--|--|------------------------------|----------------|
| THA | 412 | M | 025 | AA | 0 | C |
| Type | Capacitance | Tolerance | Rated Voltage | Case Code | Insulation | Mounting Style |
| THA | 322 = 3200 μ F 222 = 2200 μ F 162 = 1600 μ F | M = \pm 20% | 025 = 25 Vdc 075 = 75 Vdc 150 = 150 Vdc 200 = 200 Vdc | AA = 36.4 mm AB = 45.9 mm AC = 53.8 mm AD = 66.5 mm | 0 = bare can 1 = polywrap | C = two leads |

Outline Drawing

Note: The polyester tape wrap may add up to 0.020 inches to the thickness and width of the capacitor.

Style C: No Tabs



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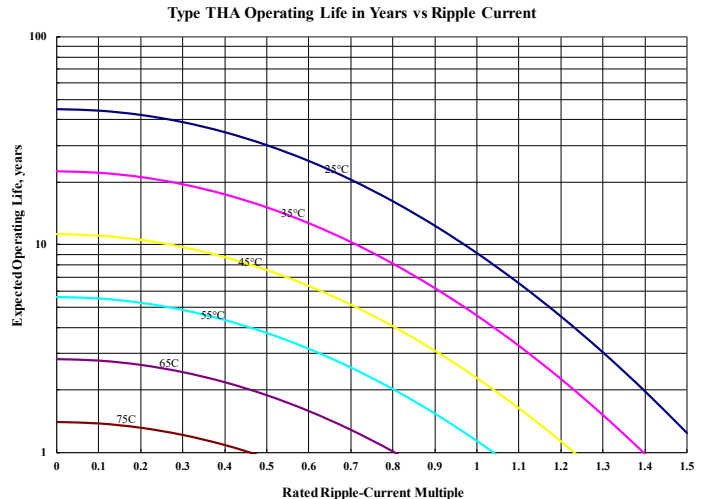
Ratings

| Voltage | Cap (µF) | Catalog Part Number | Length | ESR max 25 °C (Ω) | | Ripple (A) Ambient @ 65°C | |
|--|----------|---------------------|--------|----------------------|--------|------------------------------|--------|
| | | | | 120 Hz | 20 kHz | 120 Hz | 20 kHz |
| 10 Vdc @ 85 °C 12 Vdc Surge @ 25 °C | 8500 | THA852M010AA0C | 36.4 | 0.12 | 0.09 | 1.90 | 2.09 |
| | 11000 | THA113M010AB0C | 45.9 | 0.08 | 0.07 | 1.90 | 2.09 |
| | 14000 | THA143M010AC0C | 53.8 | 0.07 | 0.06 | 2.50 | 2.75 |
| | 18000 | THA183M010AD0C | 66.5 | 0.05 | 0.04 | 3.30 | 3.63 |
| 16 Vdc @ 85 °C 19.2 Vdc Surge @ 25 °C | 6300 | THA632M016AA0C | 36.4 | 0.12 | 0.09 | 1.90 | 2.09 |
| | 8700 | THA872M016AB0C | 45.9 | 0.08 | 0.07 | 2.10 | 2.31 |
| | 10000 | THA103M016AC0C | 53.8 | 0.07 | 0.06 | 2.50 | 2.75 |
| | 13000 | THA133M016AD0C | 66.5 | 0.05 | 0.04 | 3.30 | 3.63 |
| 20 Vdc @ 85 °C 24 Vdc Surge @ 25 °C | 5000 | THA502M020AA0C | 36.4 | 0.12 | 0.09 | 1.90 | 2.09 |
| | 7000 | THA702M020AB0C | 45.9 | 0.08 | 0.07 | 2.10 | 2.31 |
| | 8600 | THA862M020AC0C | 53.8 | 0.07 | 0.06 | 2.50 | 2.75 |
| | 11000 | THA113M020AD0C | 66.5 | 0.05 | 0.04 | 3.30 | 3.63 |
| 25 Vdc @ 85 °C 30 Vdc Surge @ 25 °C | 4100 | THA412M025AA0C | 36.4 | 0.12 | 0.09 | 1.90 | 2.09 |
| | 5700 | THA572M025AB0C | 45.9 | 0.08 | 0.07 | 2.40 | 2.64 |
| | 7000 | THA702M025AC0C | 53.8 | 0.07 | 0.06 | 2.50 | 2.75 |
| | 9000 | THA902M025AD0C | 66.5 | 0.05 | 0.04 | 3.30 | 3.30 |
| 30 Vdc @ 85 °C 36 Vdc Surge @ 25 °C | 3300 | THA332M030AA0C | 36.4 | 0.12 | 0.09 | 1.90 | 2.09 |
| | 4600 | THA462M030AB0C | 45.9 | 0.08 | 0.07 | 2.40 | 2.64 |
| | 5700 | THA572M030AC0C | 53.8 | 0.07 | 0.06 | 2.80 | 3.08 |
| | 7400 | THA742M030AD0C | 66.5 | 0.05 | 0.04 | 3.30 | 3.63 |
| 35 Vdc @ 85 °C 42 Vdc Surge @ 25 °C | 2600 | THA262M035AA0C | 36.4 | 0.12 | 0.09 | 1.90 | 2.09 |
| | 3600 | THA362M035AB0C | 45.9 | 0.08 | 0.07 | 2.40 | 2.64 |
| | 4400 | THA442M035AC0C | 53.8 | 0.07 | 0.06 | 2.80 | 3.08 |
| | 5800 | THA582M035AD0C | 66.5 | 0.05 | 0.04 | 3.50 | 3.85 |
| 40 Vdc @ 85 °C 48 Vdc Surge @ 25 °C | 2300 | THA232M040AA0C | 36.4 | 0.12 | 0.09 | 1.70 | 2.04 |
| | 3200 | THA322M040AB0C | 45.9 | 0.08 | 0.07 | 2.20 | 2.64 |
| | 4000 | THA402M040AC0C | 53.8 | 0.07 | 0.06 | 2.50 | 3.00 |
| | 5200 | THA522M040AD0C | 66.5 | 0.05 | 0.04 | 3.00 | 3.60 |
| 50 Vdc @ 85 °C 60 Vdc Surge @ 25 °C | 1600 | THA162M050AA0C | 36.4 | 0.12 | 0.09 | 1.70 | 2.04 |
| | 2200 | THA222M050AB0C | 45.9 | 0.08 | 0.07 | 2.20 | 2.64 |
| | 2700 | THA272M050AC0C | 53.8 | 0.07 | 0.06 | 2.50 | 3.00 |
| | 3500 | THA352M050AD0C | 66.5 | 0.05 | 0.04 | 2.90 | 3.48 |
| 60 Vdc @ 85 °C 72 Vdc Surge @ 25 °C | 1300 | THA132M060AA0C | 36.4 | 0.12 | 0.09 | 1.70 | 2.04 |
| | 1800 | THA182M060AB0C | 45.9 | 0.08 | 0.07 | 2.20 | 2.64 |
| | 2300 | THA232M060AC0C | 53.8 | 0.07 | 0.06 | 2.50 | 3.00 |
| | 3000 | THA302M060AD0C | 66.5 | 0.05 | 0.04 | 3.30 | 3.96 |
| 75 Vdc @ 85 °C 90 Vdc Surge @ 25 °C | 730 | THA731M075AA0C | 36.4 | 0.29 | 0.19 | 1.10 | 1.43 |
| | 1000 | THA102M075AB0C | 45.9 | 0.21 | 0.14 | 1.40 | 1.82 |
| | 1200 | THA122M075AC0C | 53.8 | 0.17 | 0.11 | 1.60 | 2.08 |
| | 1600 | THA162M075AD0C | 66.5 | 0.13 | 0.09 | 2.00 | 2.60 |
| 100 Vdc @ 85 °C 120 Vdc Surge @ 25 °C | 580 | THA581M100AA0C | 36.4 | 0.29 | 0.19 | 1.10 | 1.43 |
| | 800 | THA801M100AB0C | 45.9 | 0.21 | 0.14 | 1.40 | 1.82 |
| | 980 | THA981M100AC0C | 53.8 | 0.17 | 0.11 | 1.60 | 2.08 |
| | 1200 | THA122M100AD0C | 66.5 | 0.13 | 0.09 | 2.00 | 2.60 |

Type THA, ThinPack, Aluminum Electrolytic Capacitor, 85 °C

| Voltage | Cap (µF) | Catalog Part Number | Length | ESR max 25 °C (Ω) | | Ripple (A) Ambient @ 65°C | |
|--|----------|---------------------|--------|----------------------|--------|------------------------------|--------|
| | | | | 120 Hz | 20 kHz | 120 Hz | 20 kHz |
| 150 Vdc @ 85 °C 180 Vdc Surge @ 25 °C | 330 | THA331M150AA0C | 36.4 | 0.80 | 0.40 | 0.60 | 1.02 |
| | 450 | THA451M150AB0C | 45.9 | 0.58 | 0.29 | 0.80 | 1.36 |
| | 560 | THA561M150AC0C | 53.8 | 0.47 | 0.24 | 0.90 | 1.53 |
| | 730 | THA731M150AD0C | 66.5 | 0.37 | 0.18 | 1.20 | 2.04 |
| 200 Vdc @ 85 °C 240 Vdc Surge @ 25 °C | 170 | THA171M200AA0C | 36.4 | 0.90 | 0.45 | 0.60 | 1.02 |
| | 230 | THA231M200AB0C | 45.9 | 0.65 | 0.33 | 0.80 | 1.36 |
| | 280 | THA281M200AC0C | 53.8 | 0.53 | 0.27 | 0.90 | 1.53 |
| | 370 | THA371M200AD0C | 66.5 | 0.41 | 0.21 | 1.10 | 1.87 |
| 250 Vdc @ 85 °C 300 Vdc Surge @ 25 °C | 140 | THA141M250AA0C | 36.4 | 0.90 | 0.45 | 0.60 | 1.02 |
| | 190 | THA191M250AB0C | 45.9 | 0.65 | 0.33 | 0.80 | 1.36 |
| | 240 | THA241M250AC0C | 53.8 | 0.53 | 0.27 | 0.90 | 1.53 |
| | 310 | THA311M250AD0C | 66.5 | 0.41 | 0.21 | 1.10 | 1.87 |
| 300 Vdc @ 85 °C 350 Vdc Surge @ 25 °C | 110 | THA111M300AA0C | 36.4 | 0.90 | 0.45 | 0.60 | 1.02 |
| | 160 | THA161M300AB0C | 45.9 | 0.65 | 0.33 | 0.80 | 1.36 |
| | 190 | THA191M300AC0C | 53.8 | 0.53 | 0.27 | 0.90 | 1.53 |
| | 250 | THA251M300AD0C | 66.5 | 0.41 | 0.21 | 1.10 | 1.87 |
| 350 Vdc @ 85 °C 400 Vdc Surge @ 25 °C | 90 | THA900M350AA0C | 36.4 | 2.45 | 1.18 | 0.40 | 0.72 |
| | 130 | THA131M350AB0C | 45.9 | 1.78 | 0.85 | 0.50 | 0.90 |
| | 160 | THA161M350AC0C | 53.8 | 1.45 | 0.70 | 0.60 | 1.08 |
| | 210 | THA211M350AD0C | 66.5 | 1.12 | 0.54 | 0.80 | 1.44 |
| 400 Vdc @ 85 °C 450 Vdc Surge @ 25 °C | 80 | THA800M400AA0C | 36.4 | 2.45 | 1.18 | 0.40 | 0.72 |
| | 110 | THA111M400AB0C | 45.9 | 1.78 | 0.85 | 0.50 | 0.90 |
| | 140 | THA141M400AC0C | 53.8 | 1.45 | 0.70 | 0.60 | 1.08 |
| | 180 | THA181M400AD0C | 66.5 | 1.12 | 0.54 | 0.80 | 1.44 |
| 450 Vdc @ 85 °C 500 Vdc Surge @ 25 °C | 60 | THA600M450AA0C | 36.4 | 2.45 | 1.18 | 0.40 | 0.72 |
| | 90 | THA900M450AB0C | 45.9 | 1.78 | 0.85 | 0.50 | 0.90 |
| | 110 | THA111M450AC0C | 53.8 | 1.45 | 0.70 | 0.60 | 1.08 |
| | 140 | THA141M450AD0C | 66.5 | 1.12 | 0.54 | 0.80 | 1.44 |

Typical Performance Curves



Type THA, ThinPack, Aluminum Electrolytic Capacitor, 85 °C

Typical Performance Curves

THA272M060AC0C



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- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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