



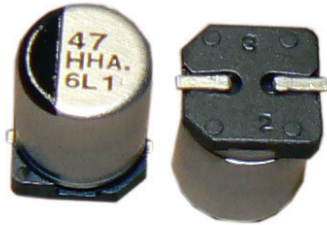
**THE DATASHEET OF
AHA476M06B12T-F**



Type AHA

SMT Aluminum Electrolytic Capacitors -55 °C to +105 °C - Long Life

Long Life Filtering, Bypassing, Power Supply Decoupling



Type AHA Capacitors deliver twice the life of many SMT aluminum capacitor types, and they handle high levels of ripple current. The AHA can handle the ripple current of Type AVS at 20 °C higher temperature. The vertical cylindrical cases facilitate automatic mounting and reflow soldering and Type AHA offers a significant cost savings over tantalum capacitors.

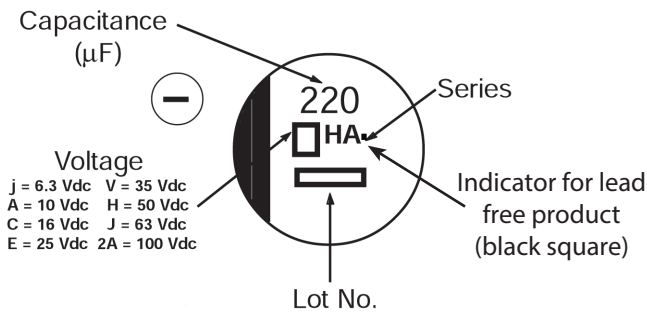
Highlights

- +105 °C, Up to 2000 Hour Load Life
- Capacitance Range: 0.1 μF to 1500 μF
- Voltage Range: 6.3 Vdc to 100 Vdc
- AEC-Q200 Compliant

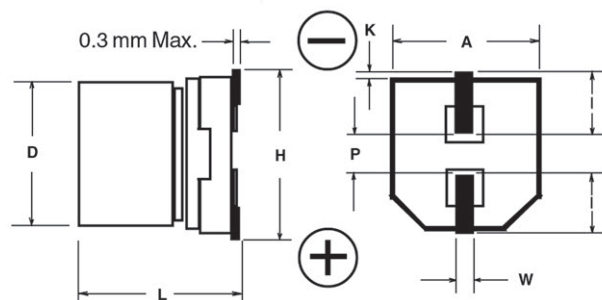
Specifications

| Capacitance Range | 0.1 μF to 1500 μF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|----------|-------------|-------|-------------|-----|----|-----|-----|-----|----------------|---|---|---|---|---|---|---|---|----------------|---|---|---|---|---|---|---|---|
| Capacitance Tolerance | ±5%, ±10%, ±20% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage | 6.3, 10, 16, 25, 35, 50, 63 & 100 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Temperature Range | -55 °C to +105 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | 0.01 CV or 3 μA @ +20°C after two minutes (whichever is greater) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dielectric Withstand Voltage | 1.6 x rated voltage for 2 s @ +25 °C ±5 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor @ 120 Hz, +25 °C | See Ratings Table | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current Multpliers (Frequency) | <table border="1"> <thead> <tr> <th>50/60 Hz</th> <th>120 Hz</th> <th>1 kHz</th> <th>10 kHz & up</th> </tr> </thead> <tbody> <tr> <td>0.7</td> <td>1</td> <td>1.3</td> <td>1.7</td> </tr> </tbody> </table> | 50/60 Hz | 120 Hz | 1 kHz | 10 kHz & up | 0.7 | 1 | 1.3 | 1.7 | | | | | | | | | | | | | | | | | | | |
| 50/60 Hz | 120 Hz | 1 kHz | 10 kHz & up | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.7 | 1 | 1.3 | 1.7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Load Life | 1000 h @ +105 °C, 4.0 - 6.3 mm dia. 2000 h @ +105 °C, 8.0 - 10.0 mm dia. Capacitance ±20% DF: < 200% of limit DCL: ≤100% of limit | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | 1000 h @ +105 °C Δ Capacitance ±20% DF: < 200% of limit DCL: ≤100% of limit | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Impedance Ratio at 120 Hz | <table border="1"> <thead> <tr> <th>W.V. Vdc</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>-25 °C /+20 °C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> </tr> <tr> <td>-40 °C /+20 °C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> </tr> </tbody> </table> | W.V. Vdc | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | -25 °C /+20 °C | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | -40 °C /+20 °C | 8 | 6 | 4 | 4 | 3 | 3 | 4 | 4 |
| W.V. Vdc | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | |
| -25 °C /+20 °C | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | | | | | | | | | | | | | | | | | | | | |
| -40 °C /+20 °C | 8 | 6 | 4 | 4 | 3 | 3 | 4 | 4 | | | | | | | | | | | | | | | | | | | | |
| RoHS Compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AHA Series Marking



Outline Drawing



Type AHA

SMT Aluminum Electrolytic Capacitors -55 °C to +105 °C - Long Life

Case Dimensions

| Case | | | | | | | | | |
|------|---------|-------------|---------|---------|---------|------------|---------|-------------------|--|
| Code | D ± 0.5 | L | A ± 0.2 | H (max) | I (ref) | W | P (ref) | K | |
| B | 4 | 5.4 +.1,-.2 | 4.3 | 5.5 | 1.8 | 0.65 ± 0.1 | 1 | 0.35 + 0.15/-0.20 | |
| C | 5 | 5.4 +.1,-.2 | 5.3 | 6.5 | 2.2 | 0.65 ± 0.1 | 1.5 | 0.35 + 0.15/-0.20 | |
| D | 6.3 | 5.4 +.1,-.2 | 6.6 | 7.8 | 2.6 | 0.65 ± 0.1 | 1.8 | 0.35 + 0.15/-0.20 | |
| X | 6.3 | 7.7 ±.3 | 6.6 | 7.8 | 2.6 | 0.65 ± 0.1 | 1.8 | 0.35 + 0.15/-0.20 | |
| E | 8 | 6.2 ±.3 | 8.3 | 9.5 | 3.4 | 0.65 ± 0.1 | 2.2 | 0.35 + 0.15/-0.20 | |
| F | 8 | 10.2 ±.3 | 8.3 | 10 | 3.4 | 0.90 ± 0.2 | 3.1 | 0.70 ± 0.20 | |
| G | 10 | 10.2 ±.3 | 10.3 | 12 | 3.5 | 0.90 ± 0.2 | 4.6 | 0.70 ± 0.20 | |

Ratings

| Cap (µF) | Catalog Part Number | Max DCL 2 min. (µA) | Max DF 120 Hz /20 °C | Max ESR 120 Hz /20 °C (Ω) | Max Ripple Current 120 Hz /105 °C (mA) | Case Code | Size D x L (mm) | Quantity per Reel |
|-------------------------------|---------------------|---------------------|----------------------|---------------------------|--|-----------|-----------------|-------------------|
| 6.3 Vdc (8 Vdc Surge) | | | | | | | | |
| 22.0 | AHA226M06B12T-F | 3.0 | 0.30 | 22.6 | 29 | B | 4 x 5.4 | 2000 |
| 33.0 | AHA336M06B12T-F | 3.0 | 0.35 | 17.6 | 29 | B | 4 x 5.4 | 2000 |
| 47.0 | AHA476M06B12T-F | 3.0 | 0.35 | 12.3 | 36 | B | 4 x 5.4 | 2000 |
| 47.0 | AHA476M06C12T-F | 3.0 | 0.30 | 10.6 | 46 | C | 5 x 5.4 | 1000 |
| 100.0 | AHA107M06C12T-F | 6.3 | 0.35 | 5.8 | 47 | C | 5 x 5.4 | 1000 |
| 100.0 | AHA107M06D16T-F | 6.3 | 0.30 | 5.0 | 71 | D | 6.3 x 5.4 | 1000 |
| 220.0 | AHA227M06D16T-F | 13.9 | 0.35 | 2.6 | 74 | D | 6.3 x 5.4 | 1000 |
| 330.0 | AHA337M06X16T-F | 20.8 | 0.30 | 1.5 | 105 | X | 6.3 x 7.7 | 900 |
| 330.0 | AHA337M06F24T-F | 20.8 | 0.35 | 1.8 | 230 | F | 8 x 10.2 | 500 |
| 470.0 | AHA477M06F24T-F | 29.6 | 0.35 | 1.2 | 300 | F | 8 x 10.2 | 500 |
| 1000.0 | AHA108M06F24T-F | 63.0 | 0.35 | 0.6 | 300 | F | 8 x 10.2 | 500 |
| 1000.0 | AHA108M06G24T-F | 63.0 | 0.35 | 0.6 | 400 | G | 10 x 10.2 | 500 |
| 1500.0 | AHA158M06G24T-F | 94.5 | 0.35 | 0.4 | 480 | G | 10 x 10.2 | 500 |
| 10 Vdc (13 Vdc Surge) | | | | | | | | |
| 22.0 | AHA226M10B12T-F | 3.0 | 0.30 | 22.6 | 28 | B | 4 x 5.4 | 2000 |
| 33.0 | AHA336M10B12T-F | 3.3 | 0.30 | 15.1 | 29 | B | 4 x 5.4 | 2000 |
| 33.0 | AHA336M10C12T-F | 3.3 | 0.22 | 11.1 | 43 | C | 5 x 5.4 | 1000 |
| 47.0 | AHA476M10C12T-F | 4.7 | 0.30 | 10.6 | 43 | C | 5 x 5.4 | 1000 |
| 100.0 | AHA107M10D16T-F | 10.0 | 0.30 | 5.0 | 70 | D | 6.3 x 5.4 | 1000 |
| 100.0 | AHA107M10E16T-F | 10.0 | 0.26 | 4.3 | 110 | E | 8 x 6.2 | 1000 |
| 220.0 | AHA227M10X16T-F | 22.0 | 0.22 | 1.7 | 105 | X | 6.3 x 7.7 | 900 |
| 220.0 | AHA227M10F24T-F | 22.0 | 0.26 | 2.0 | 160 | F | 8 x 10.2 | 500 |
| 470.0 | AHA477M10F24T-F | 47.0 | 0.26 | 0.9 | 200 | F | 8 x 10.2 | 500 |
| 470.0 | AHA477M10G24T-F | 47.0 | 0.26 | 0.9 | 270 | G | 10 x 10.2 | 500 |
| 1000.0 | AHA108M10G24T-F | 100.0 | 0.26 | 0.4 | 580 | G | 10 x 10.2 | 500 |
| 16 Vdc (20 Vdc Surge) | | | | | | | | |
| 10.0 | AHA106M16B12T-F | 3.0 | 0.16 | 26.5 | 28 | B | 4 x 5.4 | 2000 |
| 22.0 | AHA226M16B12T-F | 3.5 | 0.26 | 19.6 | 28 | B | 4 x 5.4 | 2000 |
| 22.0 | AHA226M16C12T-F | 3.5 | 0.16 | 12.1 | 39 | C | 5 x 5.4 | 1000 |
| 33.0 | AHA336M16C12T-F | 5.3 | 0.26 | 13.1 | 35 | C | 5 x 5.4 | 1000 |
| 47.0 | AHA476M16C12T-F | 7.5 | 0.26 | 9.2 | 39 | C | 5 x 5.4 | 1000 |
| 47.0 | AHA476M16D16T-F | 7.5 | 0.16 | 5.6 | 70 | D | 6.3 x 5.4 | 1000 |
| 100.0 | AHA107M16D16T-F | 16.0 | 0.26 | 4.3 | 70 | D | 6.3 x 5.4 | 1000 |
| 220.0 | AHA227M16X16T-F | 35.2 | 0.16 | 1.2 | 105 | X | 6.3 x 7.7 | 900 |
| 220.0 | AHA227M16F24T-F | 35.2 | 0.20 | 1.5 | 150 | F | 8 x 10.2 | 500 |
| 220.0 | AHA227M16G24T-F | 35.2 | 0.20 | 1.5 | 210 | G | 10 x 10.2 | 500 |
| 330.0 | AHA337M16F24T-F | 52.8 | 0.20 | 1.0 | 170 | F | 8 x 10.2 | 500 |
| 330.0 | AHA337M16G24T-F | 52.8 | 0.20 | 1.0 | 230 | G | 10 x 10.2 | 500 |
| 470.0 | AHA477M16F24T-F | 75.2 | 0.20 | 0.7 | 190 | F | 8 x 10.2 | 500 |
| 470.0 | AHA477M16G24T-F | 75.2 | 0.20 | 0.7 | 340 | G | 10 x 10.2 | 500 |
| 25 Vdc (31 Vdc Surge) | | | | | | | | |
| 4.7 | AHA475M25B12T-F | 3.0 | 0.14 | 49.4 | 22 | B | 4 x 5.4 | 2000 |
| 10.0 | AHA106M25B12T-F | 3.0 | 0.20 | 33.2 | 22 | B | 4 x 5.4 | 2000 |
| 10.0 | AHA106M25C12T-F | 3.0 | 0.14 | 23.2 | 28 | C | 5 x 5.4 | 1000 |
| 22.0 | AHA226M25C12T-F | 5.5 | 0.20 | 15.1 | 35 | C | 5 x 5.4 | 1000 |
| 22.0 | AHA226M25D16T-F | 5.5 | 0.14 | 10.6 | 55 | D | 6.3 x 5.4 | 1000 |
| 33.0 | AHA336M25C12T-F | 8.3 | 0.20 | 10.0 | 42 | C | 5 x 5.4 | 1000 |
| 33.0 | AHA336M25D16T-F | 8.3 | 0.14 | 7.0 | 65 | D | 6.3 x 5.4 | 1000 |
| 47.0 | AHA476M25D16T-F | 11.8 | 0.20 | 7.1 | 70 | D | 6.3 x 5.4 | 1000 |
| 47.0 | AHA476M25E16T-F | 11.8 | 0.16 | 5.6 | 91 | E | 8 x 6.2 | 1000 |
| 100.0 | AHA107M25E16T-F | 25.0 | 0.16 | 2.7 | 91 | E | 8 x 6.2 | 1000 |
| 100.0 | AHA107M25F24T-F | 25.0 | 0.16 | 2.7 | 130 | F | 8 x 10.2 | 500 |
| 220.0 | AHA227M25F24T-F | 55.0 | 0.16 | 1.2 | 160 | F | 8 x 10.2 | 500 |
| 220.0 | AHA227M25G24T-F | 55.0 | 0.16 | 1.2 | 190 | G | 10 x 10.2 | 500 |
| 330.0 | AHA337M25F24T-F | 82.5 | 0.16 | 0.8 | 180 | F | 8 x 10.2 | 500 |
| 330.0 | AHA337M25G24T-F | 82.5 | 0.16 | 0.8 | 340 | G | 10 x 10.2 | 500 |
| 470.0 | AHA477M25G24T-F | 117.5 | 0.16 | 0.6 | 360 | G | 10 x 10.2 | 500 |

Type AHA

SMT Aluminum Electrolytic Capacitors -55 °C to +105 °C - Long Life

| Cap (µF) | Catalog Part Number | Max DCL 2 min. (µA) | Max DF 120 Hz /20 °C | Max ESR 120 Hz /20 °C (Ω) | Max Ripple Current 120 Hz /105 °C (mA) | Case Code | Size D x L (mm) | Quantity per Reel |
|--------------------------------|------------------------|------------------------------|----------------------------|------------------------------------|---|--------------|-----------------------|----------------------|
| 35 Vdc (44 Vdc Surge) | | | | | | | | |
| 4.7 | AHA475M35B12T-F | 3.0 | 0.12 | 42.3 | 22 | B | 4 x 5.4 | 2000 |
| 10.0 | AHA106M35B12T-F | 3.6 | 0.16 | 26.5 | 22 | B | 4 x 5.4 | 2000 |
| 10.0 | AHA106M35C12T-F | 3.6 | 0.12 | 19.9 | 30 | C | 5 x 5.4 | 1000 |
| 22.0 | AHA226M35C12T-F | 7.7 | 0.16 | 12.1 | 35 | C | 5 x 5.4 | 1000 |
| 22.0 | AHA226M35D16T-F | 7.7 | 0.12 | 9.0 | 60 | D | 6.3 x 5.4 | 1000 |
| 33.0 | AHA336M35D16T-F | 11.6 | 0.16 | 8.0 | 42 | D | 6.3 x 5.4 | 1000 |
| 33.0 | AHA336M35E16T-F | 11.6 | 0.14 | 7.0 | 84 | E | 8 x 6.2 | 1000 |
| 47.0 | AHA476M35E16T-F | 16.5 | 0.14 | 4.9 | 84 | E | 8 x 6.2 | 1000 |
| 47.0 | AHA476M35F24T-F | 16.5 | 0.14 | 4.9 | 98 | F | 8 x 10.2 | 500 |
| 100.0 | AHA107M35X16T-F | 35.0 | 0.12 | 2.0 | 84 | X | 6.3 x 7.7 | 900 |
| 100.0 | AHA107M35F24T-F | 35.0 | 0.14 | 2.3 | 120 | F | 8 x 10.2 | 500 |
| 100.0 | AHA107M35G24T-F | 35.0 | 0.14 | 2.3 | 160 | G | 10 x 10.2 | 500 |
| 220.0 | AHA227M35F24T-F | 77.0 | 0.14 | 1.1 | 170 | F | 8 x 10.2 | 500 |
| 220.0 | AHA227M35G24T-F | 77.0 | 0.14 | 1.1 | 210 | G | 10 x 10.2 | 500 |
| 330.0 | AHA337M35G24T-F | 115.5 | 0.14 | 0.7 | 250 | G | 10 x 10.2 | 500 |
| 50 Vdc (63 Vdc Surge) | | | | | | | | |
| 0.10 | AHA104M50B12T-F* | 3.0 | 0.12 | 1990.0 | 1 | B | 4 x 5.4 | 2000 |
| 0.22 | AHA224M50B12T-F* | 3.0 | 0.12 | 905.0 | 2 | B | 4 x 5.4 | 2000 |
| 0.33 | AHA334M50B12T-F* | 3.0 | 0.12 | 603.0 | 3 | B | 4 x 5.4 | 2000 |
| 0.47 | AHA474M50B12T-F* | 3.0 | 0.12 | 424.0 | 5 | B | 4 x 5.4 | 2000 |
| 1.0 | AHA105M50B12T-F | 3.0 | 0.12 | 199.0 | 10 | B | 4 x 5.4 | 2000 |
| 2.2 | AHA225M50B12T-F | 3.0 | 0.12 | 90.5 | 16 | B | 4 x 5.4 | 2000 |
| 3.3 | AHA335M50B12T-F | 3.0 | 0.12 | 60.3 | 16 | B | 4 x 5.4 | 2000 |
| 4.7 | AHA475M50C12T-F | 3.0 | 0.12 | 42.4 | 23 | C | 5 x 5.4 | 1000 |
| 10.0 | AHA106M50D16T-F | 5.0 | 0.12 | 19.9 | 35 | D | 6.3 x 5.4 | 1000 |
| 22.0 | AHA226M50E16T-F | 11.0 | 0.12 | 9.0 | 70 | E | 8 x 6.2 | 1000 |
| 33.0 | AHA336M50X16T-F | 16.5 | 0.12 | 6.0 | 60 | X | 6.3 x 7.7 | 900 |
| 33.0 | AHA336M50E16T-F | 16.5 | 0.12 | 6.0 | 70 | E | 8 x 6.2 | 1000 |
| 33.0 | AHA336M50F24T-F | 16.5 | 0.12 | 6.0 | 91 | F | 8 x 10.2 | 500 |
| 47.0 | AHA476M50X16T-F | 23.5 | 0.12 | 4.2 | 63 | X | 6.3 x 7.7 | 900 |
| 47.0 | AHA476M50F24T-F | 23.5 | 0.12 | 4.2 | 95 | F | 8 x 10.2 | 500 |
| 47.0 | AHA476M50G24T-F | 23.5 | 0.12 | 4.2 | 100 | G | 10 x 10.2 | 500 |
| 100.0 | AHA107M50F24T-F | 50.0 | 0.12 | 2.0 | 110 | F | 8 x 10.2 | 500 |
| 100.0 | AHA107M50G24T-F | 50.0 | 0.12 | 2.0 | 120 | G | 10 x 10.2 | 500 |
| 220.0 | AHA227M50G24T-F | 110.0 | 0.12 | 0.9 | 150 | G | 10 x 10.2 | 500 |
| 63 Vdc (75 Vdc Surge) | | | | | | | | |
| 10.0 | AHA106M63E16T-F | 6.3 | 0.18 | 29.9 | 25 | E | 8 x 6.2 | 1000 |
| 22.0 | AHA226M63E16T-F | 13.9 | 0.18 | 13.6 | 30 | E | 8 x 6.2 | 1000 |
| 22.0 | AHA226M63F24T-F | 13.9 | 0.18 | 13.6 | 30 | F | 8 x 10.2 | 500 |
| 33.0 | AHA336M63G24T-F | 20.8 | 0.18 | 9.0 | 45 | G | 10 x 10.2 | 500 |
| 47.0 | AHA476M63F24T-F | 29.6 | 0.18 | 6.3 | 50 | F | 8 x 10.2 | 500 |
| 47.0 | AHA476M63G24T-F | 29.6 | 0.18 | 6.3 | 50 | G | 10 x 10.2 | 500 |
| 100 Vdc (125 Vdc Surge) | | | | | | | | |
| 3.3 | AHA335M2AE16T-F | 3.3 | 0.18 | 90.5 | 30 | E | 8 x 6.2 | 1000 |
| 4.7 | AHA475M2AE16T-F* | 4.7 | 0.18 | 63.5 | 30 | E | 8 x 6.2 | 1000 |
| 4.7 | AHA475M2AF24T-F* | 4.7 | 0.18 | 63.5 | 50 | F | 8 x 10.2 | 500 |
| 10.0 | AHA106M2AF24T-F | 10.0 | 0.18 | 29.8 | 55 | F | 8 x 10.2 | 500 |
| 22.0 | AHA226M2AF24T-F | 22.0 | 0.18 | 13.6 | 55 | F | 8 x 10.2 | 500 |
| 22.0 | AHA226M2AG24T-F | 22.0 | 0.18 | 13.6 | 60 | G | 10 x 10.2 | 500 |
| 33.0 | AHA336M2AG24T-F | 33.0 | 0.18 | 9.0 | 65 | G | 10 x 10.2 | 500 |

* denotes a discontinued part

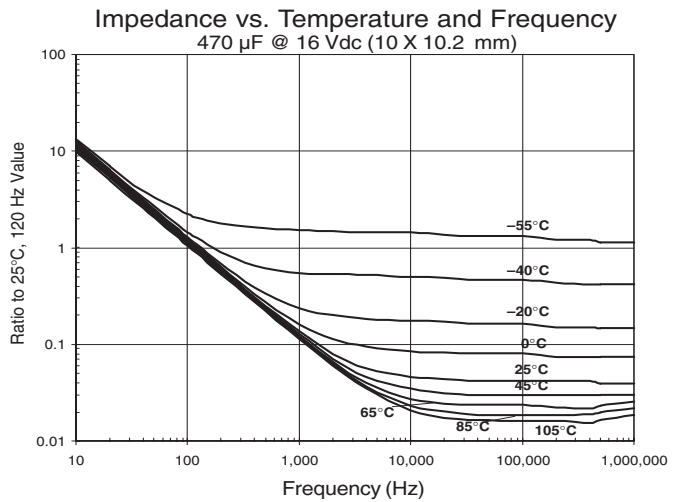
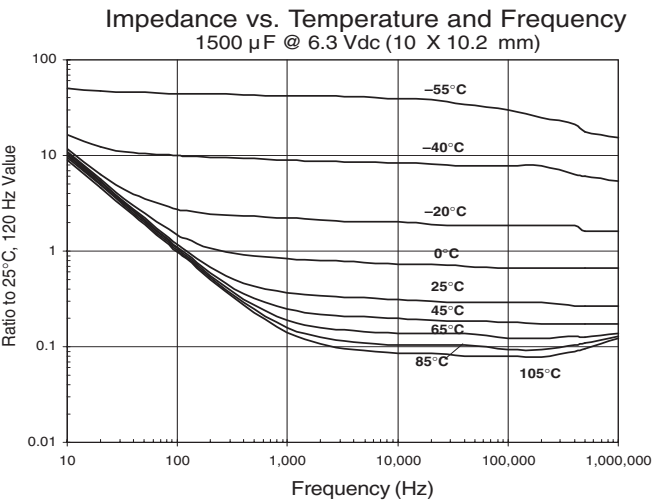
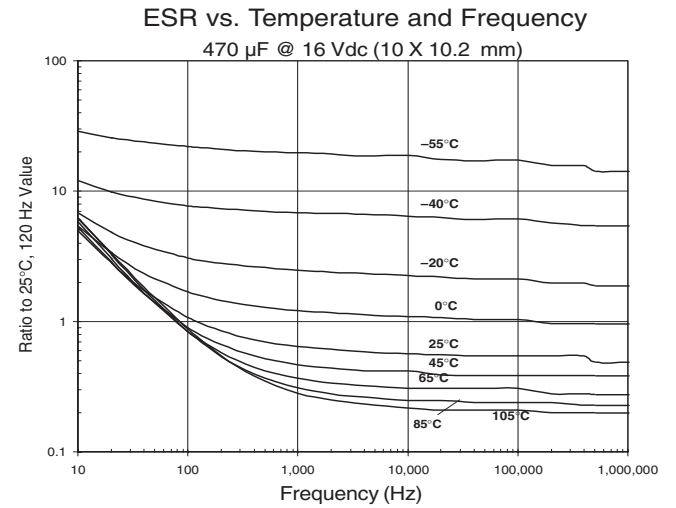
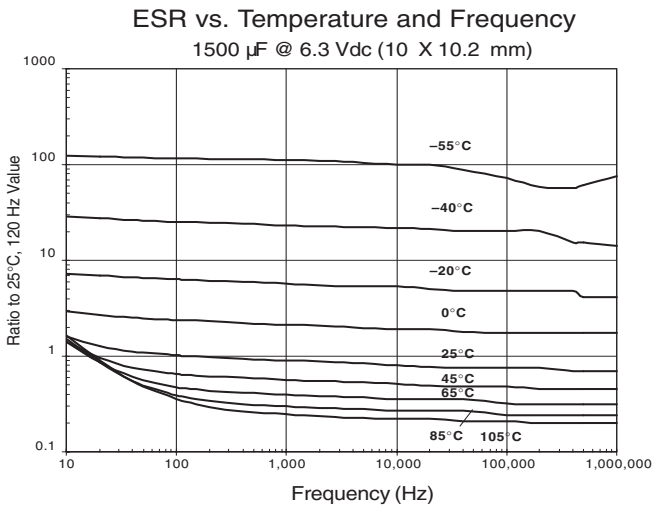
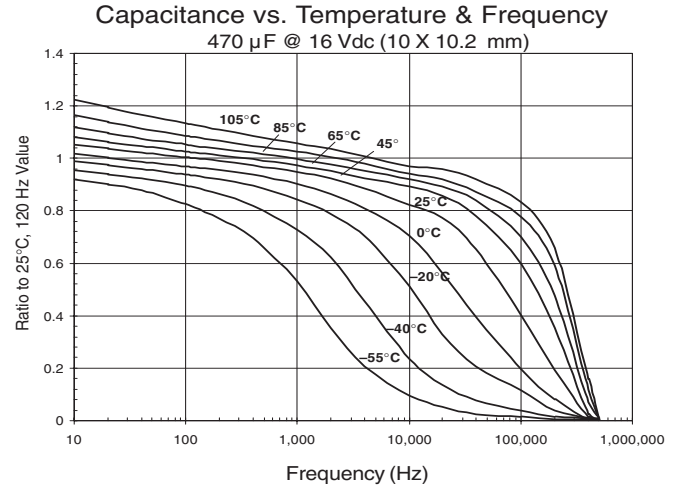
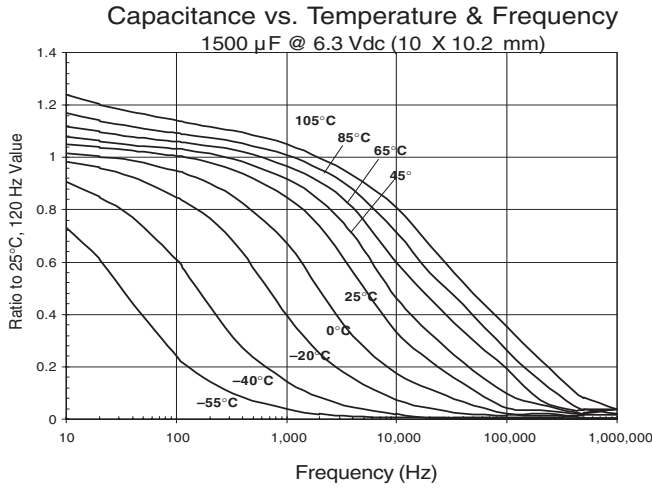
Part Numbering System

| | | | | | | |
|---------------|--------------------|--------------------|--------------------------|-------------|--------------------|------------------|
| AHA | 106 | M | 16 | B | 12T | - F |
| | | | | | | |
| Series | Capacitance | Capacitance | Voltage | Case | Packaging | RoHS |
| | 104 = 0.1 µF | Tolerance | 06 = 6.3 Vdc 35 = 35 Vdc | Code | Information | Compliant |
| | 105 = 1.0 µF | M = ±20% | 10 = 10 Vdc 50 = 50 Vdc | B = B | 12 = Carrier Tape | |
| | 106 = 10.0 µF | | 16 = 16 Vdc 63 = 63 Vdc | | Width (mm) | |
| | 107 = 100.0 µF | | 25 = 25 Vdc 2A = 100 Vdc | | T = Tape & Reel | |
| | 108 = 1000.0 µF | | | | B = Bulk | |

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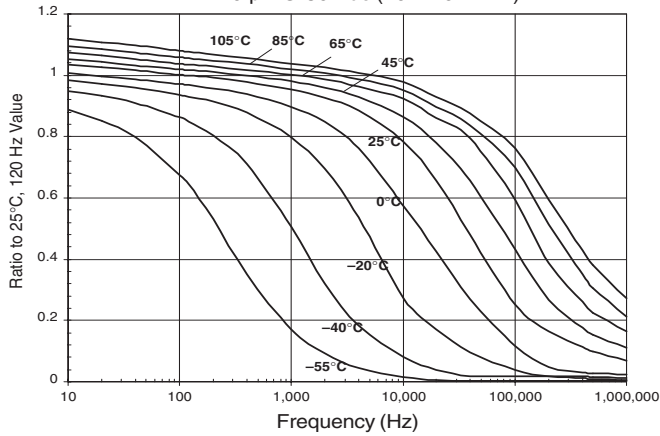
Typical Performance Curves



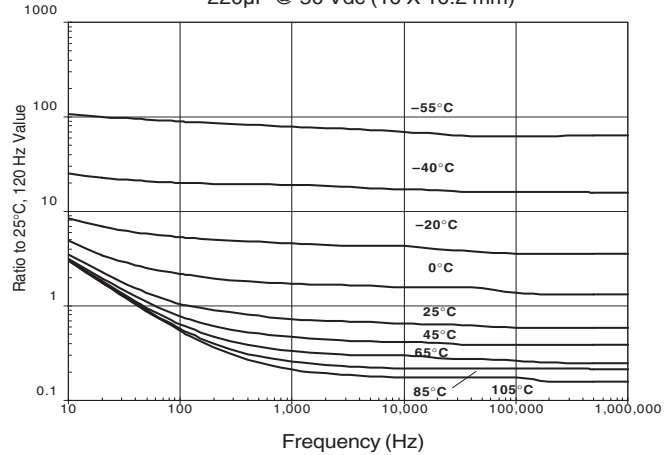
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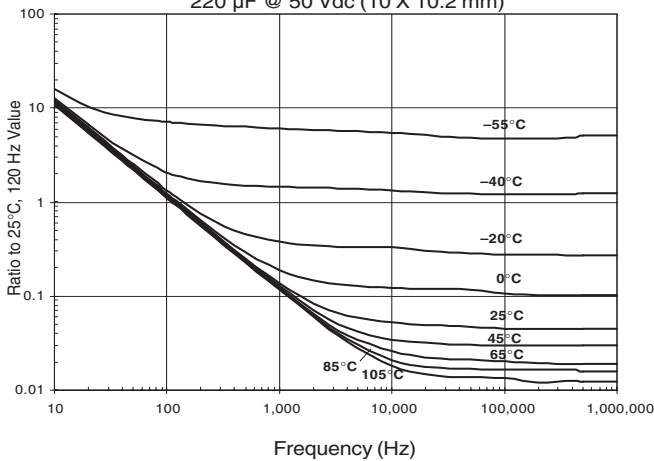
Capacitance vs. Temperature & Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



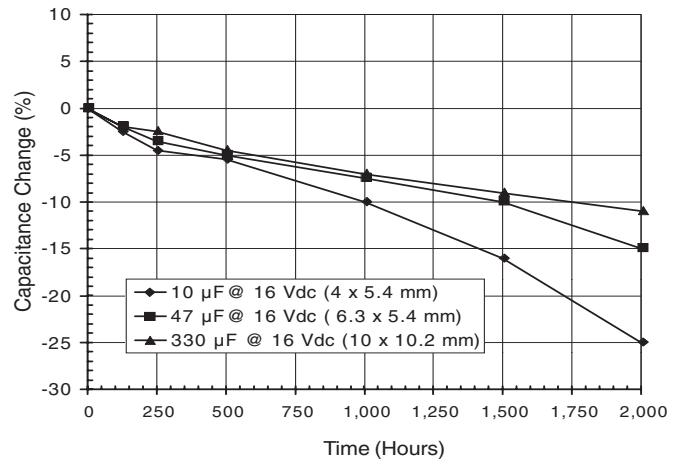
ESR vs. Temperature and Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



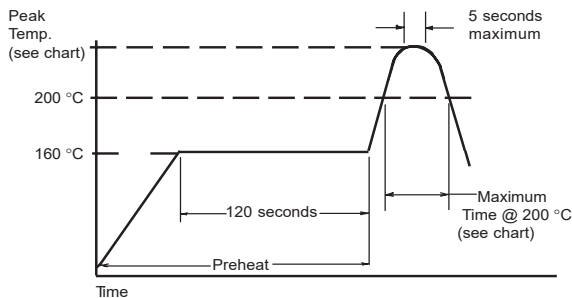
Impedance vs. Temperature and Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



Capacitance Change vs Time



Reflow Soldering Temperature Profile for Part Numbers Ending in -F



| Case Code | Peak Temperature (°C) | Max. Time at or above 200°C (sec.) | Number of Reflow Processes |
|------------|-----------------------|------------------------------------|----------------------------|
| B, C, D, X | 250 | 60 | 1 |
| E, F, G | 235 | 60 | 1 |

See SMT application guide for land pattern, tape and reel specifications, and cleaning information.

Type AHA

SMT Aluminum Electrolytic Capacitors -55 °C to +105 °C - Long Life

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