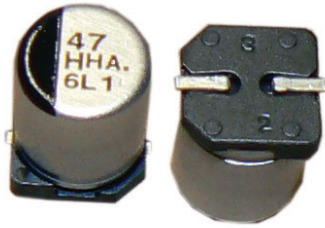


Type AHA

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

Operating Temperature: -55 °C to +105 °C

Rated Voltage: 6.3, 10, 16, 25, 35, 50, 63 & 100 Vdc

Capacitance: 0.1 µF to 1500 µF

D.F. (@ 20 °C): See Ratings Table

Capacitance Tolerance: 20% @ 120 Hz and +20 °C

Leakage Current: 0.01 CV or 3 µA @ +20°C after two minutes (whichever is greater)

Ripple Current Multipliers: **Frequency**

| 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.

Δ Capacitance ±20%

DF: < 200% of limit

DCL: ≤100% of limit

Shelf Life: 1000 h @ +105 °C

Δ Capacitance ±20%

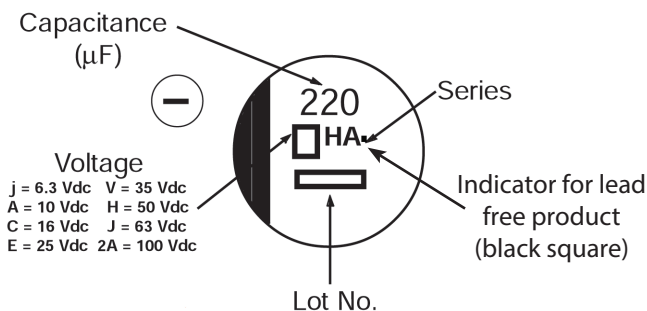
DF: < 200% of limit

DCL: ≤100% of limit

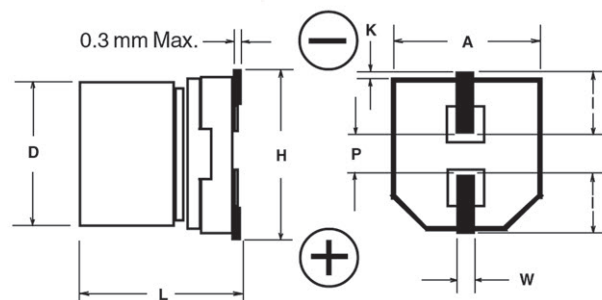
| Maximum Impedance Ratio at 120 Hz | | | | | | | | |
|-----------------------------------|-----|----|----|----|----|----|----|-----|
| W.V. Vdc | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| -25 °C / +20 °C | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 3 |
| -40 °C / +20 °C | 8 | 6 | 4 | 4 | 3 | 3 | 4 | 4 |

RoHS Compliant

AHA Series Marking



Outline Drawing



Type AHA

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

Case Dimen-

| 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

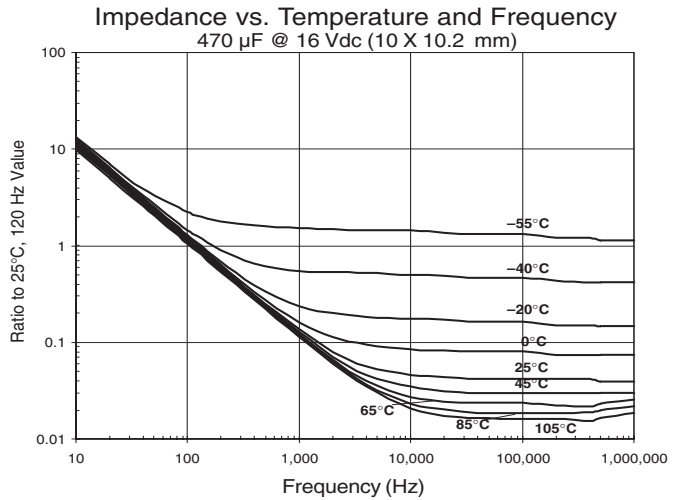
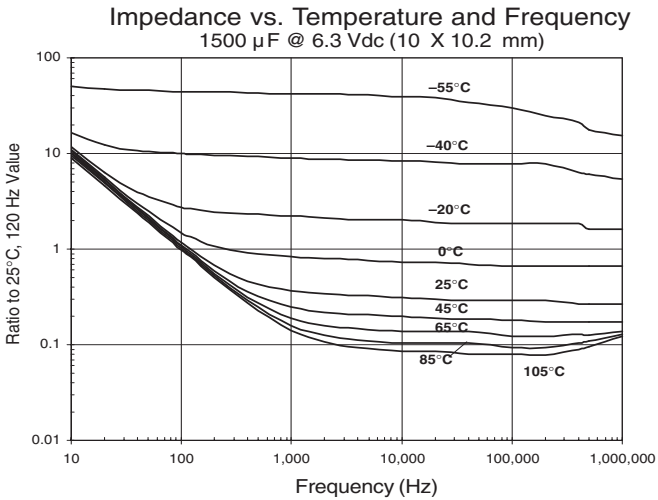
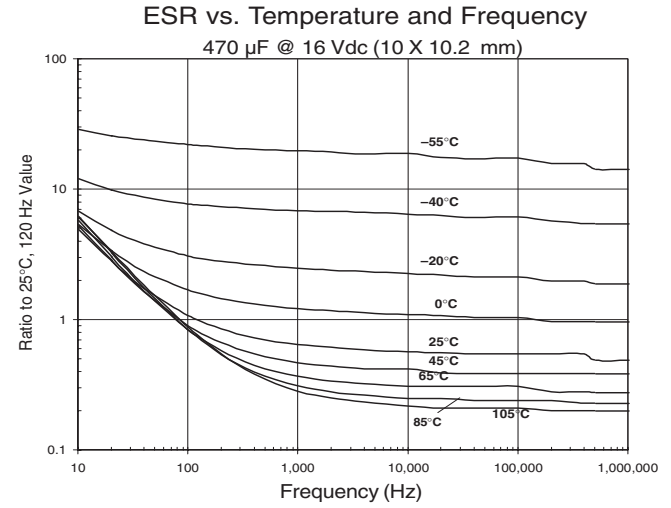
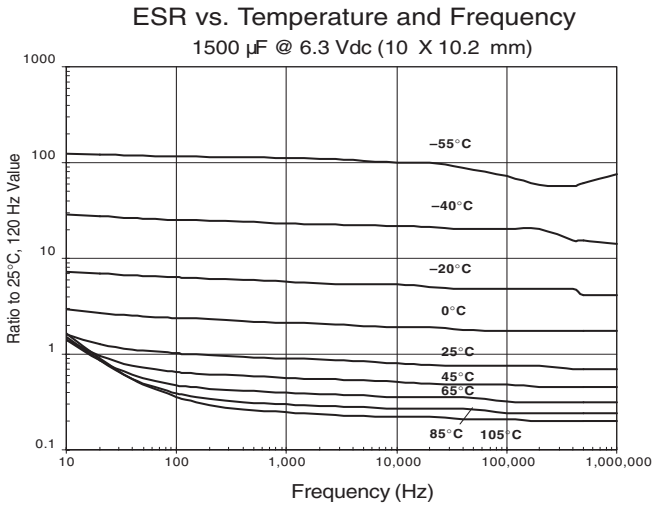
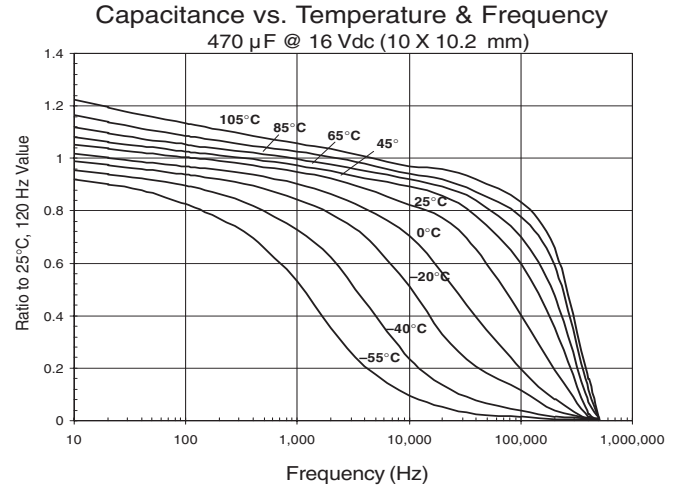
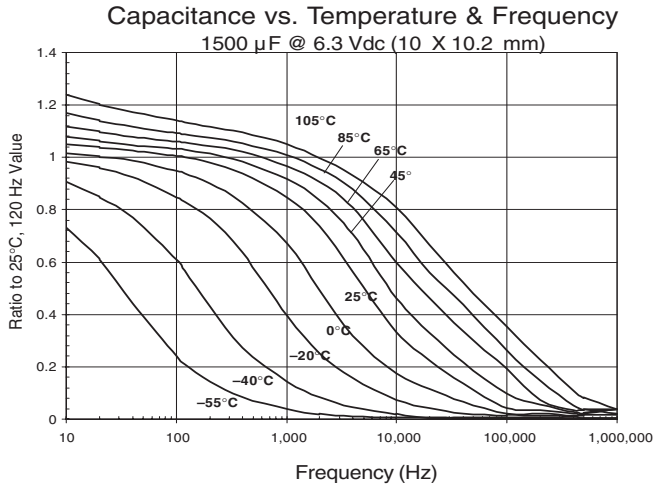
Part Numbering System

| Series | Capacitance | Capacitance | Voltage | Case | Packaging | RoHS |
|--------|-----------------|-------------|--------------------------|-------|-------------------|-----------|
| AHA | 106 | M | 16 | B | 12T | - F |
| I | I | I | I | I | I | I |
| 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 | |

Type AHA

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

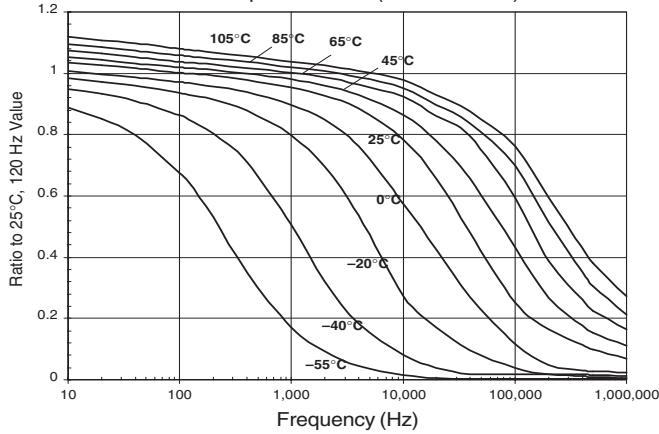
Typical Performance Curves



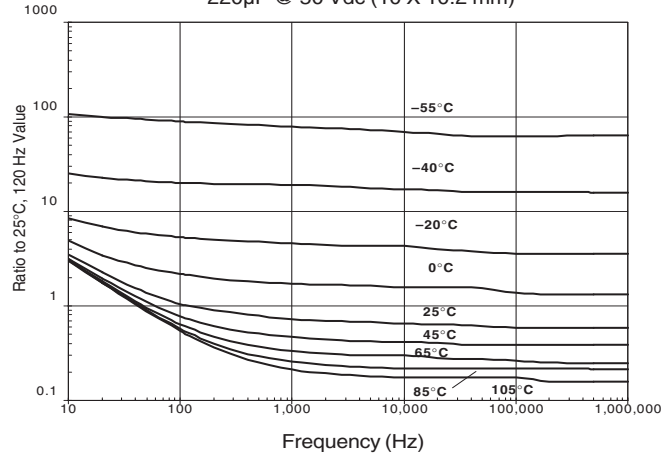
Type AHA

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

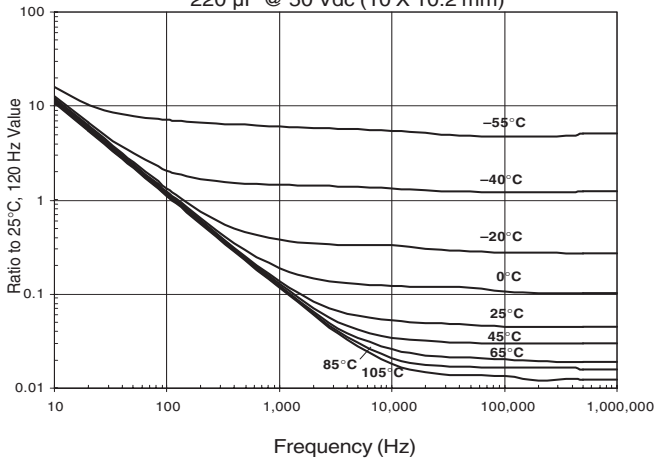
Capacitance vs. Temperature & Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



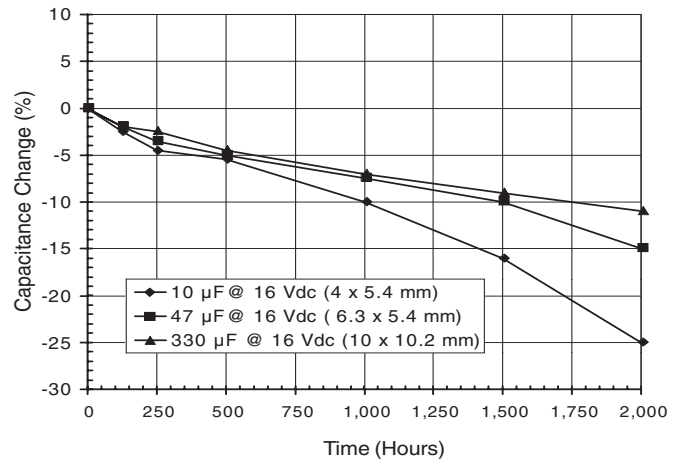
ESR vs. Temperature and Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



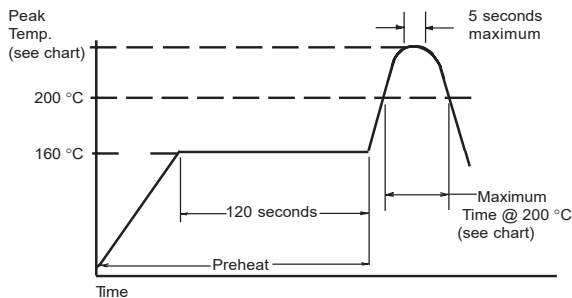
Impedance vs. Temperature and Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



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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