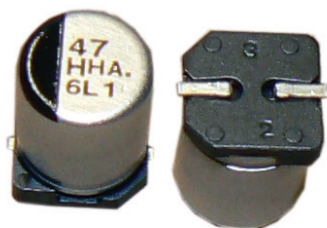


# Type AHA

## 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  $\mu\text{F}$  to 1500  $\mu\text{F}$
- Voltage Range: 6.3 Vdc to 100 Vdc

### Specifications

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

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

**Capacitance:** 0.1  $\mu\text{F}$  to 1500  $\mu\text{F}$

**D.F. (@ 20 °C):** See Ratings Table

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

**Leakage Current:** 0.01 CV or 3  $\mu\text{A}$  @ +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.

$\Delta$  Capacitance  $\pm 20\%$

DF: < 200% of limit

DCL:  $\leq 100\%$  of limit

**Shelf Life:** 1000 h @ +105 °C

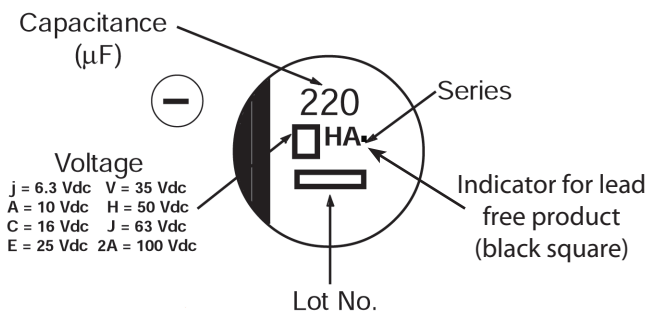
$\Delta$  Capacitance  $\pm 20\%$

DF: < 200% of limit

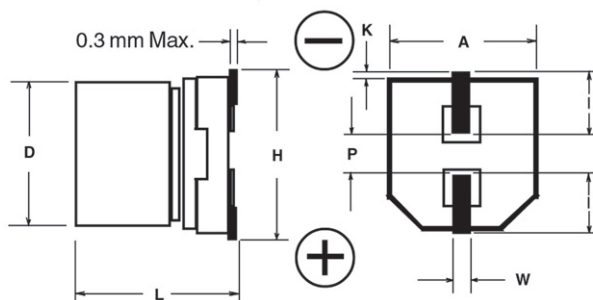
DCL:  $\leq 100\%$  of limit

| 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   |

### 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<br>(µF)                    | Catalog<br>Part Number | Max<br>DCL<br>2 min.<br>(µA) | Max<br>DF<br>120 Hz /20 °C | Max<br>ESR<br>120 Hz /20 °C<br>(Ω) | Max<br>Ripple Current<br>120 Hz /105 °C<br>(mA) | Case<br>Code | Size<br>D x L<br>(mm) | Quantity<br>per Reel |
|--------------------------------|------------------------|------------------------------|----------------------------|------------------------------------|-------------------------------------------------|--------------|-----------------------|----------------------|
| <b>35 Vdc (44 Vdc Surge)</b>   |                        |                              |                            |                                    |                                                 |              |                       |                      |
| 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                  |
| <b>50 Vdc (63 Vdc Surge)</b>   |                        |                              |                            |                                    |                                                 |              |                       |                      |
| 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                  |
| <b>63 Vdc (75 Vdc Surge)</b>   |                        |                              |                            |                                    |                                                 |              |                       |                      |
| 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                  |
| <b>100 Vdc (125 Vdc Surge)</b> |                        |                              |                            |                                    |                                                 |              |                       |                      |
| 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                  |

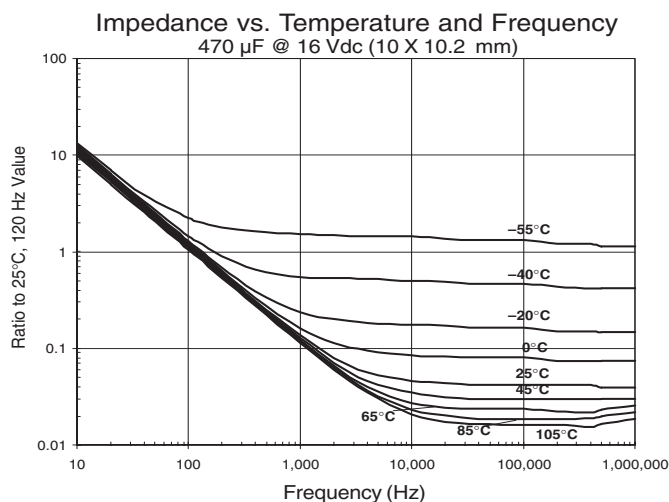
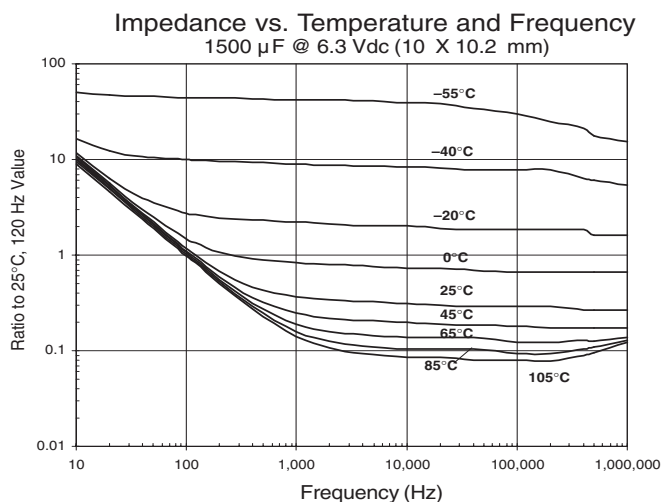
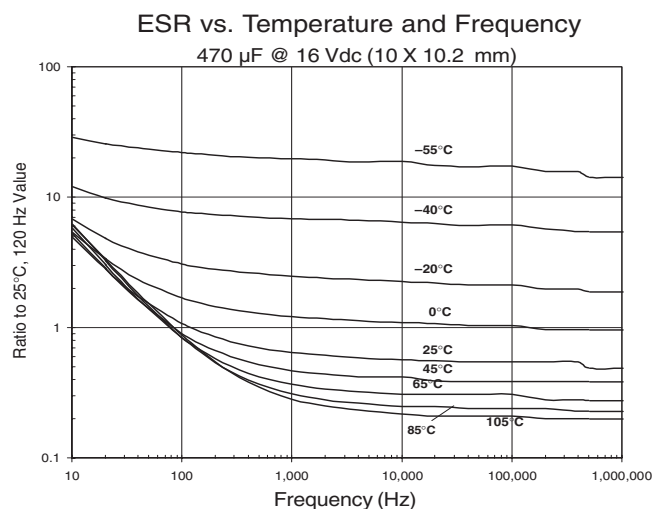
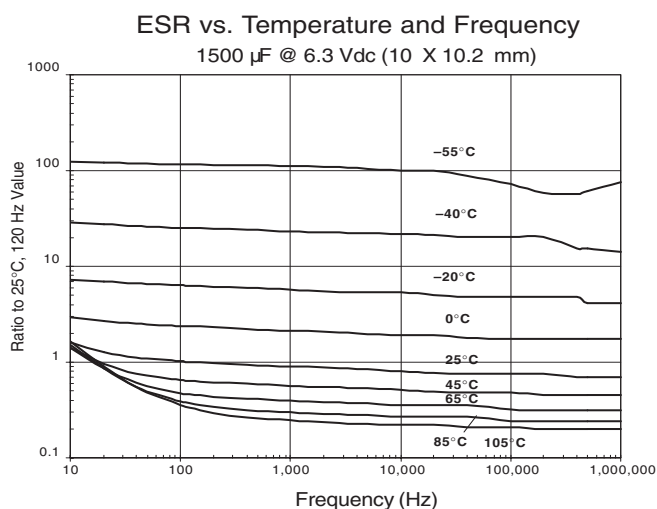
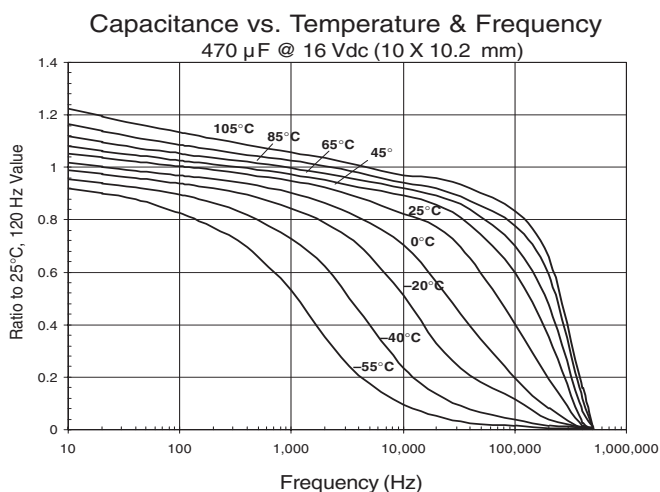
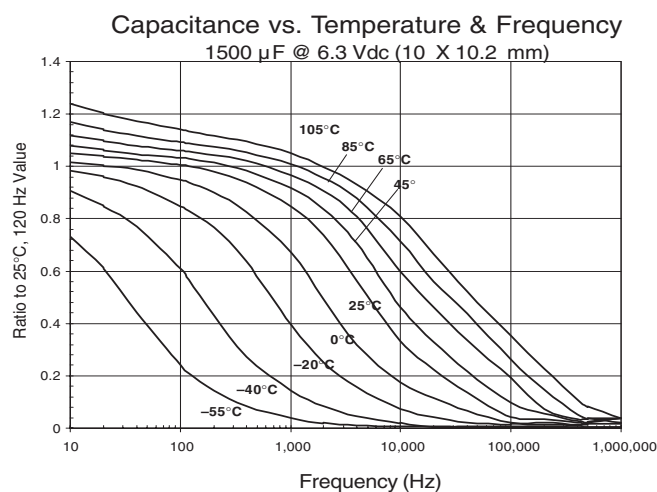
### Part Numbering System

| 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    | <b>Tolerance</b> | 06 = 6.3 Vdc 35 = 35 Vdc | <b>Code</b> | <b>Information</b> | <b>Compliant</b> |
|        | 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

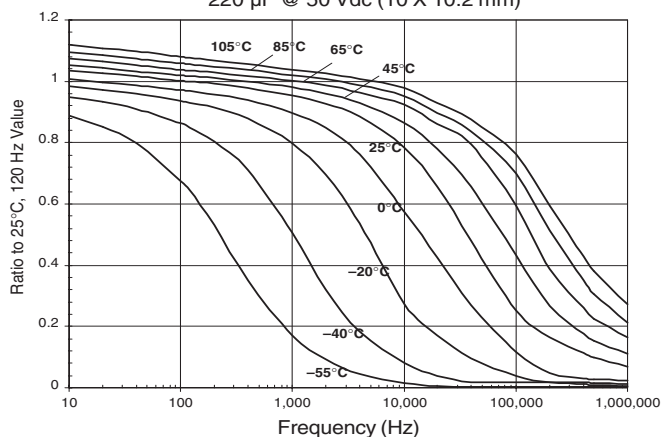


# Type AHA

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

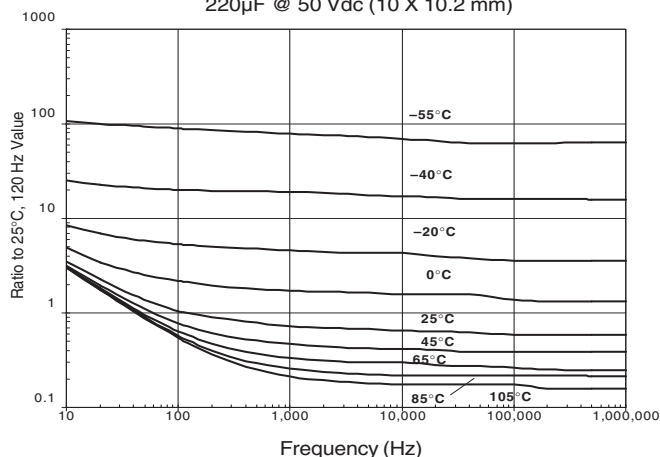
Capacitance vs. Temperature & Frequency

220  $\mu$ F @ 50 Vdc (10 X 10.2 mm)



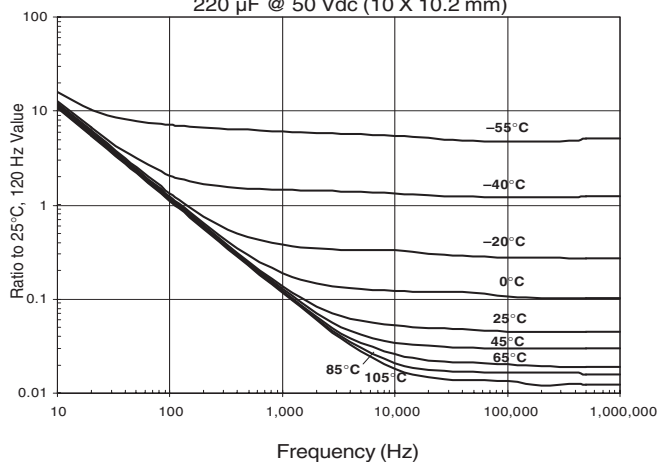
ESR vs. Temperature and Frequency

220 $\mu$ F @ 50 Vdc (10 X 10.2 mm)

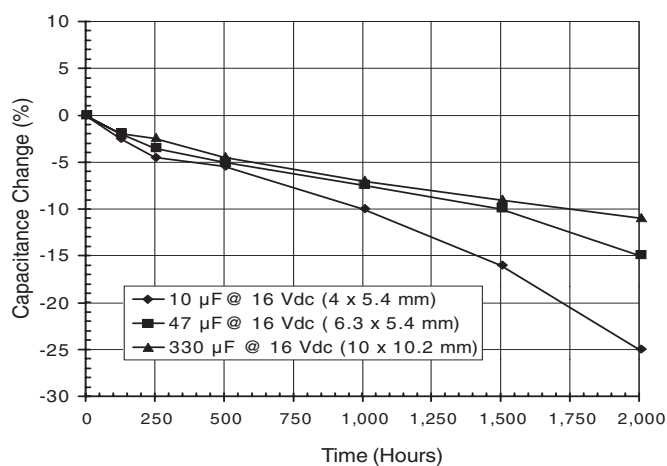


Impedance vs. Temperature and Frequency

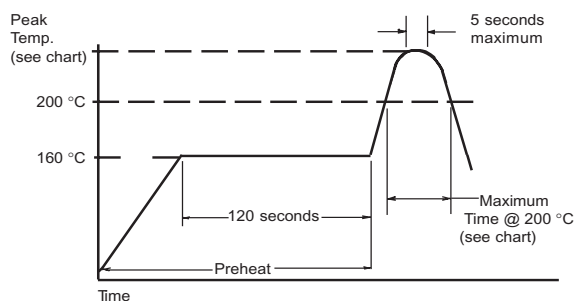
220  $\mu$ F @ 50 Vdc (10 X 10.2 mm)



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.

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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