

# 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

### 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   |

### AHA Series Marking



### Outline Drawing



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### 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<br>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>6.3 Vdc ( 8 Vdc Surge)</b> |                        |                              |                            |                                    |   |              |                       |                      |
| 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                  |
| <b>10 Vdc ( 13 Vdc Surge)</b> |                        |                              |                            |                                    |   |              |                       |                      |
| 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                  |
| <b>16 Vdc ( 20 Vdc Surge)</b> |                        |                              |                            |                                    |   |              |                       |                      |
| 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                  |
| <b>25 Vdc ( 31 Vdc Surge)</b> |                        |                              |                            |                                    |   |              |                       |                      |
| 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                  |

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| Cap<br>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

|               |                    |                    |                          |             |                    |                  |
|---------------|--------------------|--------------------|--------------------------|-------------|--------------------|------------------|
| <b>AHA</b>    | <b>106</b>         | <b>M</b>           | <b>16</b>                | <b>B</b>    | <b>12T</b>         | <b>- F</b>       |
|               |                    |                    |                          |             |                    |                  |
| <b>Series</b> | <b>Capacitance</b> | <b>Capacitance</b> | <b>Voltage</b>           | <b>Case</b> | <b>Packaging</b>   | <b>RoHS</b>      |
|               | 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           |                  |

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

### Typical Performance Curves

Capacitance vs. Temperature & Frequency  
1500  $\mu$ F @ 6.3 Vdc (10 X 10.2 mm)



Capacitance vs. Temperature & Frequency  
470  $\mu$ F @ 16 Vdc (10 X 10.2 mm)



ESR vs. Temperature and Frequency  
1500  $\mu$ F @ 6.3 Vdc (10 X 10.2 mm)



ESR vs. Temperature and Frequency  
470  $\mu$ F @ 16 Vdc (10 X 10.2 mm)



Impedance vs. Temperature and Frequency  
1500  $\mu$ F @ 6.3 Vdc (10 X 10.2 mm)



Impedance vs. Temperature and Frequency  
470  $\mu$ F @ 16 Vdc (10 X 10.2 mm)



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



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



Impedance vs. Temperature and Frequency  
220 µF @ 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.

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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