# Type AFK –55 °C to 105 °C

## SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105 °C

### Low Impedance and Long-Life for Filtering, Bypassing and Power Supply Decoupling

Type AFK Capacitors are the best and by a wide margin. With 40% to 60% lower impedance, 30% to 50% smaller case size and more than twice the life compared to low-ESR type AFC, the Type AFK also excels at cold performance down to –55 °C. In addition, this terrific low-impedance performance, approaching low-ESR tantalum capacitors, is at a significant cost savings compared to tantalum. The vertical cylindrical cases facilitate automatic mounting and reflow soldering into the same footprint of like-rated tantalum capacitors except without the need for voltage derating.

### Highlights

- +105 °C, Up to 5000 Hour Load Life
- Capacitance Range: 3.3 µF to 6800 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, 80 & 100 Vdc

**Capacitance:** 3.3 µF to 6800 µF

**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 Multiplier:**

| Frequency | 50/60 Hz | 120 Hz | 1 kHz | 10 kHz | 100 kHz |
|---|---|---|---|---|---|
| | 0.70 | .0.75 | 0.90 | 0.95 | 1.00 |

**Dissipation Factor:**

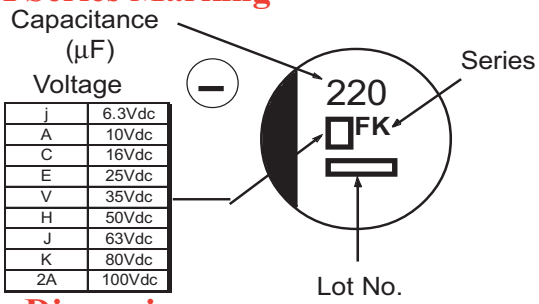
| 6.3V | 10 V | 16 V | 25 V | 35 V | 50 V | 63 V | 80 V | 100 V |
|---|---|---|---|---|---|---|---|---|
| 0.26 | 0.19 | 0.16 | 0.14 | 0.12 | 0.1 | 0.08 | 0.08 | 0.07 |

Add 0.02 per 1000 µF for values greater that 1000

**Life Test:** 2000 h @ 105 °C, 4.0 — 10.0 mm dia.
5000 h @ 105 °C, 12.5 — 18.0 mm dia.
Δ Capacitance ±30%
DF: ≤ 200% of limit
DCL: ≤ 100% of limit

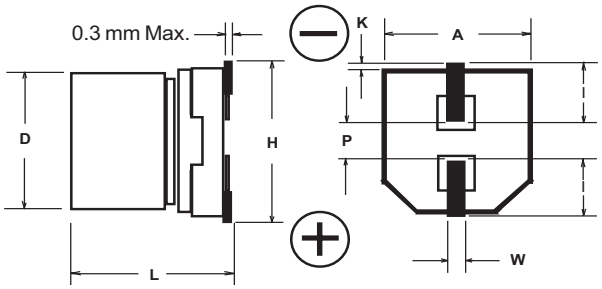
**Shelf Test:** 1000 h @ 105 °C
Δ Capacitance ±30%
DF: ≤ 200% of limit
DCL: ≤ 100% of limit

## AFK Series Marking




| | |
|---|---|
| j | 6.3Vdc |
| A | 10Vdc |
| C | 16Vdc |
| E | 25Vdc |
| V | 35Vdc |
| H | 50Vdc |
| J | 63Vdc |
| K | 80Vdc |
| 2A | 100Vdc |

## Outline Drawing




## Case Dimensions

| Case Code | D ± .05 | L | A ± 0.2 | H (max) | I (ref) | W | P (ref) | K (mm) |
|---|---|---|---|---|---|---|---|---|
| B | 4.0 | 5.8 ± 0.3 | 4.3 | 5.5 | 1.8 | 0.65 ±0.1 | 1.0 | 0.35 +0.15/–0.20 |
| C | 5.0 | 5.8 ± 0.3 | 5.3 | 6.5 | 2.2 | 0.65 ±0.1 | 1.5 | 0.35 +0.15/–0.20 |
| D | 6.3 | 5.8 ± 0.3 | 6.6 | 7.8 | 2.6 | 0.65 ±0.1 | 1.8 | 0.35 +0.15/–0.20 |
| X | 6.3 | 7.9 ± 0.3 | 6.6 | 7.8 | 2.6 | 0.65 ±0.1 | 1.8 | 0.35 +0.15/–0.20 |
| E | 8.0 | 6.2 ± 0.3 | 8.3 | 9.5 | 3.4 | 0.65 ±0.1 | 2.2 | 0.35 +0.15/–0.20 |
| F | 8.0 | 10.2 ± 0.3 | 8.3 | 10.0 | 3.4 | 0.90 ±0.2 | 3.1 | 0.70 ±0.20 |
| G | 10.0 | 10.2 ± 0.3 | 10.3 | 12.0 | 3.5 | 0.90 ±0.2 | 4.6 | 0.70 ±0.20 |
| H | 12.5 | 13.5 ± 0.5 | 13.5 | 15.0 | 4.7 | 0.90 ±0.3 | 4.4 | 0.70 ±0.30 |
| P | 16.0 | 16.5 ± 0.5 | 17.0 | 19.0 | 5.5 | 1.2 ±0.3 | 6.7 | 0.70 ±0.30 |
| R | 18.0 | 16.5 ± 0.5 | 19.0 | 21.0 | 6.7 | 1.2 ±0.3 | 6.7 | 0.70 ±0.30 |

# Type AFK –55 °C to 105 °C

# SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105 °C

## Ratings Table

| Cap (µF) | Catalog Part Number | Max. DCL 2 min (µA) | Max. Dissipation Factor @120 Hz/20 °C | Max. ESR @100 kHz/20 °C (Ω ) | Impedance @ 100 kHz/20 °C (Ω) | Max. Ripple Current @ 100 kHz/105 °C (mA) | Case Code | Size D x L (mm) | Quantity per Reel |
|---|---|---|---|---|---|---|---|---|---|
| **6.3 Vdc ( 8 Vdc Surge )** | | | | | | | | | |
| 22 | AFK226M06B12T | 3.0 | 0.26 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 47 | AFK476M06B12T | 3.0 | 0.26 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 47 | AFK476M06C12T | 3.0 | 0.26 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 100 | AFK107M06C12T | 6.3 | 0.26 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 100 | AFK107M06D16T | 6.3 | 0.26 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 220 | AFK227M06D16T | 13.9 | 0.26 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 330 | AFK337M06X16T | 20.8 | 0.26 | 0.340 | 0.340 | 280 | X | 6.3 x 7.7 | 900 |
| 330 | AFK337M06E16T | 20.8 | 0.26 | 0.260 | 0.260 | 300 | E | 8 x 6.2 | 1000 |
| 470 | AFK477M06F24T | 29.6 | 0.26 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 1000 | AFK108M06F24T | 63.0 | 0.26 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 1500 | AFK158M06G24T | 94.5 | 0.26 | 0.080 | 0.080 | 850 | G | 10 x 10.2 | 500 |
| 3300 | AFK338M06H32T | 207.9 | 0.30 | 0.060 | 0.060 | 1100 | H | 12.5 x 13.5 | 200 |
| 6800 | AFK688M06P44T | 428.4 | 0.36 | 0.035 | 0.035 | 1800 | P | 16 x 16.5 | 125 |
| **10 Vdc ( 13 Vdc Surge )** | | | | | | | | | |
| 22 | AFK226M10B12T | 3.0 | 0.19 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 33 | AFK336M10B12T | 3.3 | 0.19 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 33 | AFK336M10C12T | 3.3 | 0.19 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 150 | AFK157M10D16T | 15.0 | 0.19 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 220 | AFK227M10X16T | 22.0 | 0.19 | 0.340 | 0.340 | 280 | X | 6.3 x 7.7 | 900 |
| 220 | AFK227M10E16T | 22.0 | 0.19 | 0.260 | 0.260 | 300 | E | 8 x 6.2 | 1000 |
| 330 | AFK337M10F24T | 33.0 | 0.19 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 470 | AFK477M10F24T | 47.0 | 0.19 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 680 | AFK687M10F24T | 68.0 | 0.19 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 1000 | AFK108M10G24T | 100.0 | 0.19 | 0.080 | 0.080 | 850 | G | 10 x 10.2 | 500 |
| 2200 | AFK228M10H32T | 220.0 | 0.21 | 0.060 | 0.060 | 1100 | H | 12.5 x 13.5 | 200 |
| 4700 | AFK478M10P44T | 470.0 | 0.25 | 0.035 | 0.035 | 1800 | P | 16 x 16.5 | 125 |
| 6800 | AFK688M10R44T | 680.0 | 0.29 | 0.033 | 0.033 | 2060 | R | 18 x 16.5 | 125 |
| **16 Vdc ( 20 Vdc Surge )** | | | | | | | | | |
| 10 | AFK106M16B12T | 3.0 | 0.16 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 22 | AFK226M16B12T | 3.5 | 0.16 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 22 | AFK226M16C12T | 3.5 | 0.16 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 47 | AFK476M16C12T | 7.5 | 0.16 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 47 | AFK476M16D16T | 7.5 | 0.16 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 68 | AFK686M16D16T | 10.9 | 0.19 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 100 | AFK107M16D16T | 16.0 | 0.16 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 150 | AFK157M16X16T | 24.0 | 0.16 | 0.340 | 0.340 | 280 | X | 6.3 x 7.7 | 900 |
| 220 | AFK227M16X16T | 35.2 | 0.16 | 0.340 | 0.340 | 280 | X | 6.3 x 7.7 | 900 |
| 220 | AFK227M16E16T | 35.2 | 0.16 | 0.260 | 0.260 | 300 | E | 8 x 6.2 | 1000 |
| 330 | AFK337M16F24T | 52.8 | 0.16 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 470 | AFK477M16F24T | 75.2 | 0.16 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 680 | AFK687M16G24T | 108.8 | 0.16 | 0.080 | 0.080 | 850 | G | 10 x 10.2 | 500 |
| 1500 | AFK158M16H32T | 240.0 | 0.16 | 0.060 | 0.060 | 1100 | H | 12.5 x 13.5 | 200 |
| 3300 | AFK338M16P44T | 528.0 | 0.20 | 0.035 | 0.035 | 1800 | P | 16 x 16.5 | 125 |
| 4700 | AFK478M16R44T | 752.0 | 0.22 | 0.033 | 0.033 | 2060 | R | 18 x 16.5 | 125 |

# Type AFK –55 °C to 105 °C

## SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105 °C

| Cap (µF) | Catalog Part Number | Max. DCL 2 min (µA) | Max. Dissipation Factor @120 Hz/20 °C | Max. ESR @100 kHz/20 °C (Ω ) | Impedance @ 100 kHz/20 °C (Ω) | Max. Ripple Current @ 100 kHz/105 °C (mA) | Case Code | Size D x L (mm) | Quantity per Reel |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 25 Vdc ( 31 Vdc Surge ) | | | | | |
| 10 | AFK106M25B12T | 3.0 | 0.14 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 22 | AFK226M25C12T | 5.5 | 0.14 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 33 | AFK336M25C12T | 8.3 | 0.14 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 33 | AFK336M25D16T | 8.3 | 0.14 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 47 | AFK476M25D16T | 11.8 | 0.14 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 68 | AFK686M25D16T | 17.0 | 0.14 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 100 | AFK107M25X16T | 25.0 | 0.14 | 0.340 | 0.340 | 280 | X | 6.3 x 7.7 | 900 |
| 100 | AFK107M25E16T | 25.0 | 0.14 | 0.260 | 0.260 | 300 | E | 8 x 6.2 | 1000 |
| 150 | AFK157M25F24T | 37.5 | 0.14 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 220 | AFK227M25F24T | 55.0 | 0.14 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 330 | AFK337M25F24T | 82.5 | 0.14 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 470 | AFK477M25G24T | 117.5 | 0.14 | 0.080 | 0.080 | 850 | G | 10 x 10.2 | 500 |
| 1000 | AFK108M25H32T | 250.0 | 0.14 | 0.060 | 0.060 | 1100 | H | 12.5 x 13.5 | 200 |
| 1500 | AFK158M25P44T | 375.0 | 0.14 | 0.035 | 0.035 | 1800 | P | 16 x 16.5 | 125 |
| 2200 | AFK228M25P44T | 550.0 | 0.16 | 0.035 | 0.035 | 1800 | P | 16 x 16.5 | 125 |
| 3300 | AFK338M25R44T | 825.0 | 0.18 | 0.033 | 0.033 | 2060 | R | 18 x 16.5 | 125 |
| | | | | 35 Vdc ( 44 Vdc Surge ) | | | | | |
| 4.7 | AFK475M35B12T | 3.0 | 0.12 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 10 | AFK106M35B12T | 3.5 | 0.12 | 1.350 | 1.350 | 90 | B | 4 x 5.8 | 2000 |
| 10 | AFK106M35C12T | 3.5 | 0.12 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 22 | AFK226M35C12T | 7.7 | 0.12 | 0.700 | 0.700 | 160 | C | 5 x 5.8 | 1000 |
| 33 | AFK336M35D16T | 11.6 | 0.12 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 47 | AFK476M35D16T | 16.5 | 0.12 | 0.360 | 0.360 | 240 | D | 6.3 x 5.8 | 1000 |
| 68 | AFK686M35X16T | 23.8 | 0.12 | 0.340 | 0.340 | 280 | X | 6.3 x 7.7 | 900 |
| 100 | AFK107M35X16T | 35.0 | 0.12 | 0.340 | 0.340 | 280 | X | 6.3 x 7.7 | 900 |
| 100 | AFK107M35F24T | 35.0 | 0.12 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 150 | AFK157M35F24T | 52.5 | 0.12 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 220 | AFK227M35F24T | 77.0 | 0.12 | 0.160 | 0.160 | 600 | F | 8 x 10.2 | 500 |
| 330 | AFK337M35G24T | 115.5 | 0.12 | 0.080 | 0.080 | 850 | G | 10 x 10.2 | 500 |
| 470 | AFK477M35H32T | 164.5 | 0.12 | 0.060 | 0.060 | 1100 | H | 12.5 x 13.5 | 200 |
| 680 | AFK687M35H32T | 238.0 | 0.12 | 0.060 | 0.060 | 1100 | H | 12.5 x 13.5 | 200 |
| 1000 | AFK108M35P44T | 350.0 | 0.12 | 0.035 | 0.035 | 1800 | P | 16 x 16.5 | 125 |
| 1500 | AFK158M35P44T | 525.0 | 0.12 | 0.035 | 0.035 | 1800 | P | 16 x 16.5 | 125 |
| | | | | 50 Vdc ( 63 Vdc Surge ) | | | | | |
| 4.7 | AFK475M50B12T | 3.0 | 0.10 | 2.900 | 2.900 | 60 | B | 4 x 5.8 | 2000 |
| 10 | AFK106M50C12T | 5.0 | 0.10 | 1.520 | 1.520 | 85 | C | 5 x 5.8 | 1000 |
| 10 | AFK106M50D16T | 5.0 | 0.10 | 0.880 | 0.880 | 165 | D | 6.3 x 5.8 | 1000 |
| 22 | AFK226M50D16T | 11.0 | 0.10 | 0.880 | 0.880 | 165 | D | 6.3 x 5.8 | 1000 |
| 33 | AFK336M50X16T | 16.5 | 0.10 | 0.680 | 0.680 | 195 | X | 6.3 x 7.7 | 900 |
| 33 | AFK336M50E16T | 16.5 | 0.10 | 0.680 | 0.680 | 195 | E | 8 x 6.2 | 1000 |
| 47 | AFK476M50X16T | 23.5 | 0.10 | 0.680 | 0.680 | 195 | X | 6.3 x 7.7 | 900 |
| 47 | AFK476M50E16T | 23.5 | 0.10 | 0.680 | 0.680 | 195 | E | 8 x 6.2 | 1000 |
| 100 | AFK107M50F24T | 50.0 | 0.10 | 0.340 | 0.340 | 350 | F | 8 x 10.2 | 500 |

# Type AFK –55 °C to 105 °C

## SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105 °C

| Cap (µF) | Catalog Part Number | Max. DCL 2 min (µA) | Max. Dissipation Factor @120 Hz/20 °C | Max. ESR @100 kHz/20 °C (Ω ) | Impedance @ 100 kHz/20 °C (Ω) | Max. Ripple Current @ 100 kHz/105 °C (mA) | Case Code | Size D x L (mm) | Quantity per Reel |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 50 Vdc ( 63 Vdc Surge ) | | | | | |
| 150 | AFK157M50G24T | 75.0 | 0.10 | 0.180 | 0.180 | 670 | G | 10 x 10.2 | 500 |
| 220 | AFK227M50G24T | 110.0 | 0.10 | 0.180 | 0.180 | 670 | G | 10 x 10.2 | 500 |
| 330 | AFK337M50H32T | 165.0 | 0.10 | 0.120 | 0.120 | 900 | H | 12.5 x 13.5 | 200 |
| 390 | AFK397M50H32T | 195.0 | 0.10 | 0.120 | 0.120 | 900 | H | 12.5 x 13.6 | 200 |
| 470 | AFK477M50P44T | 235.0 | 0.10 | 0.073 | 0.073 | 1610 | P | 16 x 16.5 | 125 |
| 560 | AFK567M50P44T | 280.0 | 0.10 | 0.073 | 0.073 | 1610 | P | 16 x 16.5 | 125 |
| 680 | AFK687M50P44T | 340.0 | 0.10 | 0.073 | 0.073 | 1610 | P | 16 x 16.5 | 125 |
| 1000 | AFK108M50P44T | 500.0 | 0.10 | 0.073 | 0.073 | 1610 | P | 16 x 16.5 | 125 |
| | | | | 63 Vdc ( 75 Vdc Surge ) | | | | | |
| 4.7 | AFK475M63C12T | 3.0 | 0.08 | 3.000 | 3.000 | 50 | C | 5 x 5.8 | 1000 |
| 10 | AFK106M63D16T | 6.3 | 0.08 | 1.500 | 1.500 | 80 | D | 6.3 x 5.8 | 1000 |
| 22 | AFK226M63X16T | 13.9 | 0.08 | 1.200 | 1.200 | 120 | X | 6.3 x 7.7 | 900 |
| 22 | AFK226M63E16T | 13.9 | 0.08 | 1.200 | 1.200 | 120 | E | 8 x 6.2 | 1000 |
| 33 | AFK336M63F24T | 20.8 | 0.08 | 0.650 | 0.650 | 250 | F | 8 x 10.2 | 500 |
| 47 | AFK476M63F24T | 29.6 | 0.08 | 0.650 | 0.650 | 250 | F | 8 x 10.2 | 500 |
| 68 | AFK686M63G24T | 42.8 | 0.08 | 0.350 | 0.350 | 400 | G | 10 x 10.2 | 500 |
| 100 | AFK107M63G24T | 63.0 | 0.08 | 0.350 | 0.350 | 400 | G | 10 x 10.2 | 500 |
| 150 | AFK157M63H32T | 94.5 | 0.08 | 0.160 | 0.160 | 800 | H | 12.5 x 13.5 | 200 |
| 220 | AFK227M63H32T | 138.6 | 0.08 | 0.160 | 0.160 | 800 | H | 12.5 x 13.5 | 200 |
| 470 | AFK477M63P44T | 296.1 | 0.08 | 0.082 | 0.082 | 1410 | P | 16 x 16.5 | 125 |
| 680 | AFK687M63R44T | 428.4 | 0.08 | 0.080 | 0.080 | 1690 | R | 18 x 16.5 | 125 |
| | | | | 80 Vdc ( 100 Vdc Surge ) | | | | | |
| 3.3 | AFK335M80C12T | 3.0 | 0.08 | 5.00 | 5.00 | 25 | C | 5 x 5.8 | 1000 |
| 4.7 | AFK475M80D16T | 3.8 | 0.08 | 3.00 | 3.00 | 40 | D | 6.3 x 5.8 | 1000 |
| 10.0 | AFK106M80X16T | 8.0 | 0.08 | 2.40 | 2.40 | 60 | X | 6.3 x 7.7 | 900 |
| 10.0 | AFK106M80E16T | 8.0 | 0.08 | 2.40 | 2.40 | 60 | E | 8 x 6.2 | 1000 |
| 22.0 | AFK226M80F24T | 17.6 | 0.08 | 1.30 | 1.30 | 130 | F | 8 x 10.2 | 500 |
| 33.0 | AFK336M80F24T | 26.4 | 0.08 | 1.30 | 1.30 | 130 | F | 8 x 10.2 | 500 |
| 47.0 | AFK476M80G24T | 37.6 | 0.08 | 0.70 | 0.70 | 200 | G | 10 x 10.2 | 500 |
| 68.0 | AFK686M80H32T | 54.4 | 0.08 | 0.32 | 0.32 | 500 | H | 12.5 x 13.5 | 200 |
| 100.0 | AFK107M80H32T | 80.0 | 0.08 | 0.32 | 0.32 | 500 | H | 12.5 x 13.5 | 200 |
| 150.0 | AFK157M80H32T | 120.0 | 0.08 | 0.32 | 0.32 | 500 | H | 12.5 x 13.5 | 200 |
| 330.0 | AFK337M80P44T | 264.0 | 0.08 | 0.17 | 0.17 | 793 | P | 16 x 16.5 | 125 |
| 470.0 | AFK477M80R44T | 376.0 | 0.08 | 0.15 | 0.15 | 917 | R | 18 x 16.5 | 125 |
| | | | | 100 Vdc ( 125 Vdc Surge ) | | | | | |
| 22.0 | AFK226M2AF24T | 22.0 | 0.07 | 1.30 | 1.30 | 130 | F | 8 x 10.2 | 500 |
| 33.0 | AFK336M2AG24T | 33.0 | 0.07 | 0.70 | 0.70 | 200 | G | 10 x 10.2 | 500 |
| 47.0 | AFK476M2AH32T | 47.0 | 0.07 | 0.32 | 0.32 | 500 | H | 12.5 x 13.5 | 200 |
| 68.0 | AFK686M2AH32T | 68.0 | 0.07 | 0.32 | 0.32 | 500 | H | 12.5 x 13.5 | 200 |
| 100.0 | AFK107M2AP44T | 100.0 | 0.07 | 0.17 | 0.17 | 793 | P | 16 x 16.5 | 125 |
| 150.0 | AFK157M2AP44T | 150.0 | 0.07 | 0.17 | 0.17 | 793 | P | 16 x 16.5 | 125 |
| 220.0 | AFK227M2AR44T | 220.0 | 0.07 | 0.15 | 0.15 | 917 | R | 18 x 16.5 | 125 |
| 330.0 | AFK337M2AR44T | 330.0 | 0.07 | 0.15 | 0.15 | 917 | R | 18 x 16.5 | 125 |

# Type AFK –55 °C to 105 °C

## SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105 °C

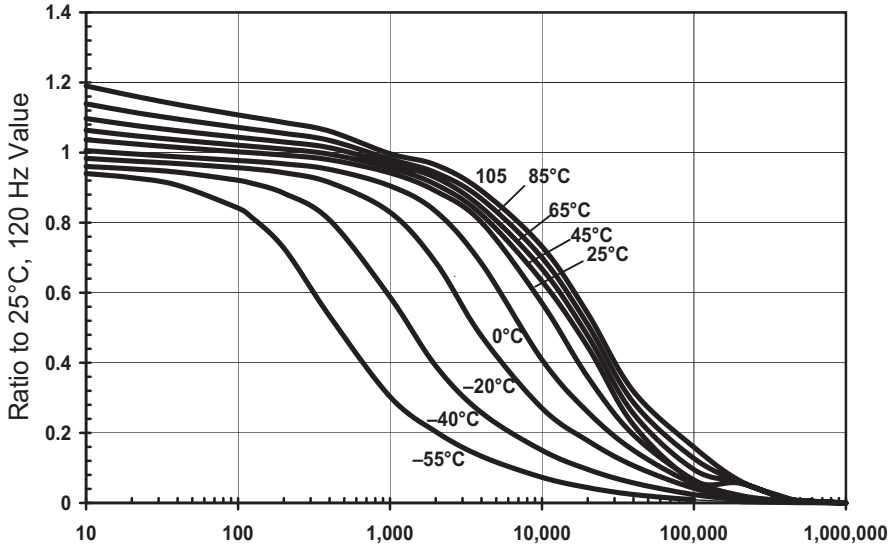
### Part Numbering System

| AFK | 106 | M | 16 | B | 12T | –F |
|---|---|---|---|---|---|---|
| **Type** | **Capacitance** | **Capacitance Tolerance** | **Voltage Code** | **Case Code** | **Packaging Code** | **RoHS Compliant** |
| | 105 = 1.0 µF | | 06 = 6.3 Vdc 35 = 35 Vdc | | 12 = Carrier tape | |
| | 106 = 10.0 µF | M = ±20% | 10 = 10 Vdc 50 = 50 Vdc | | Width (mm) | |
| | 107 = 100.0 µF | | 16 = 16 Vdc 63 = 63 Vdc | | T = Tape & Reel | |
| | 108 = 1000.0 µF | | 25 = 25 Vdc 80 = 80 Vdc | | B = Bulk | |
| | | | 2A = 100 Vdc | | | |

### Typical Performance Curves

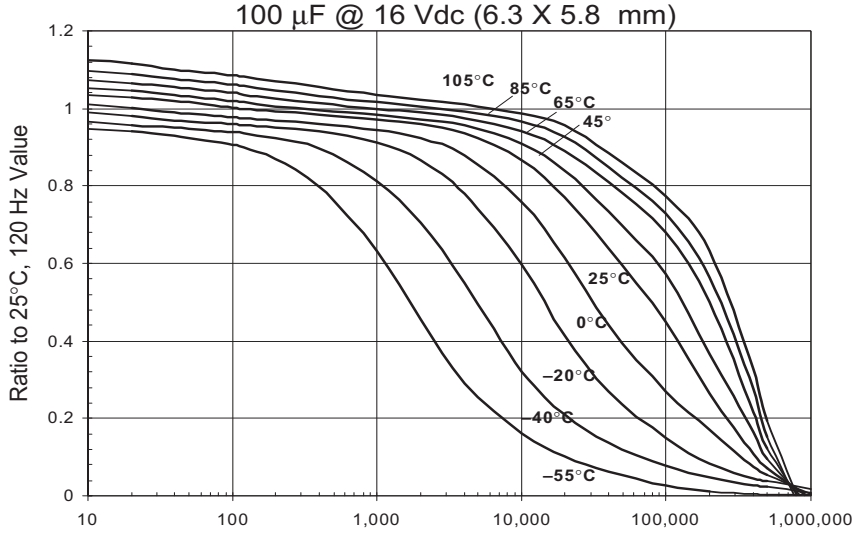
Capacitance vs. Temperature and Frequency

3300µF/6.3Vdc (12.5 x 13.5 mm)




Capacitance vs. Temperature & Frequency

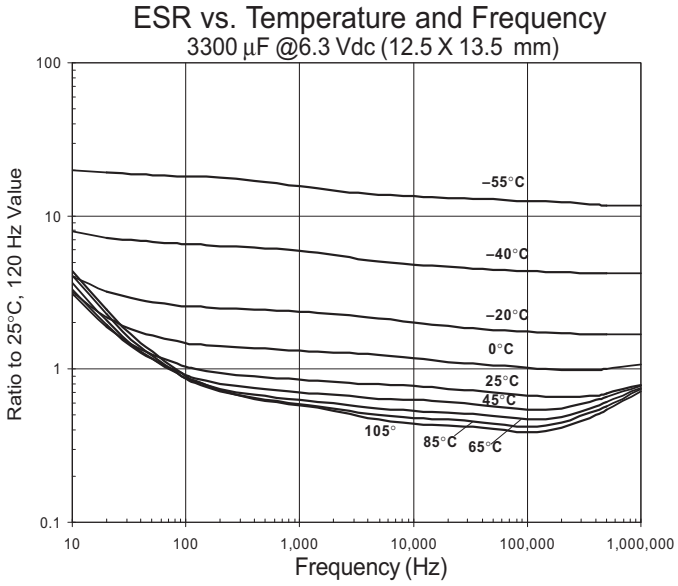
100 µF @ 16 Vdc (6.3 X 5.8 mm)

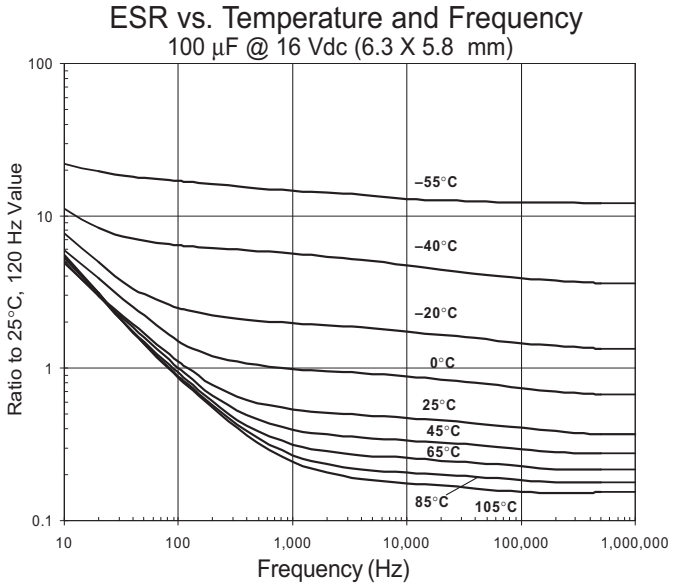


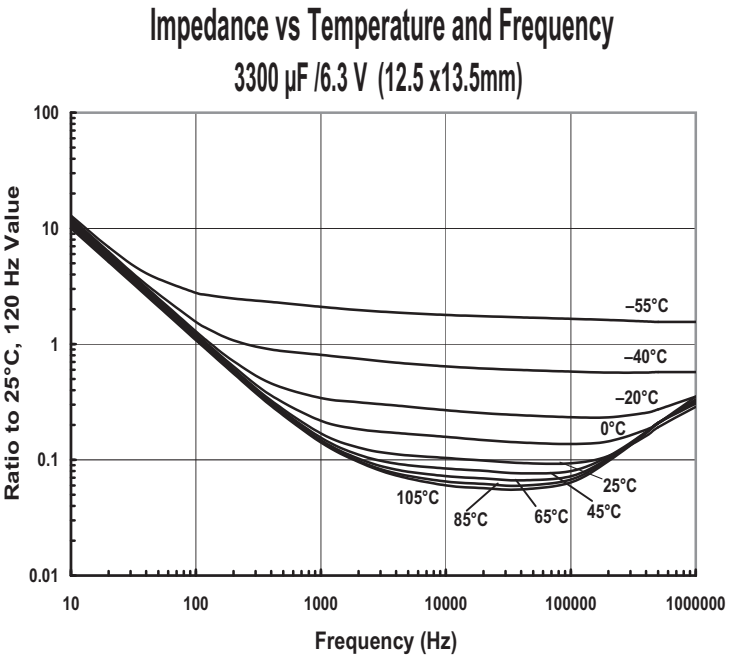
# Type AFK –55 °C to 105 °C

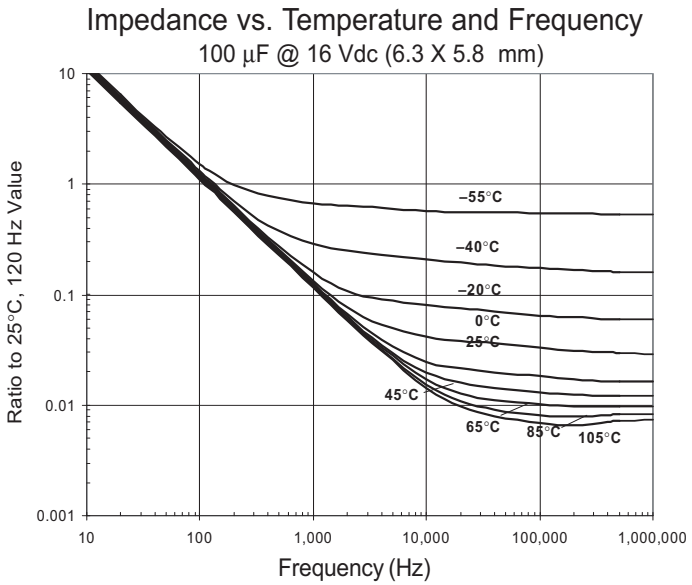
## SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105 °C

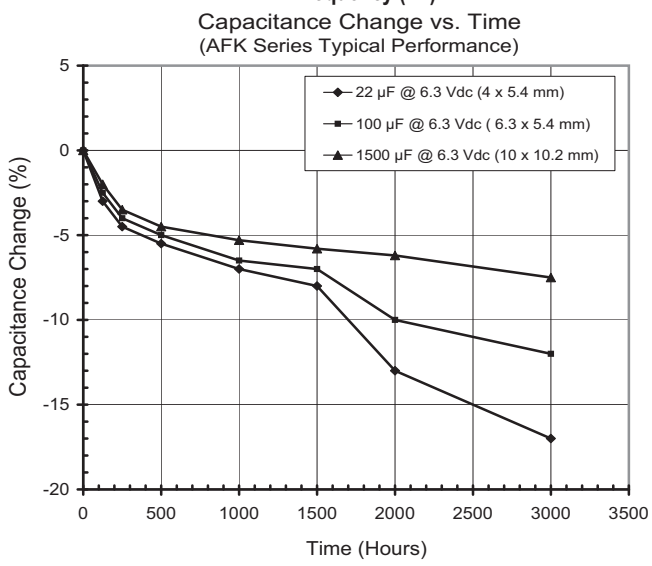
### Typical Performance Curves

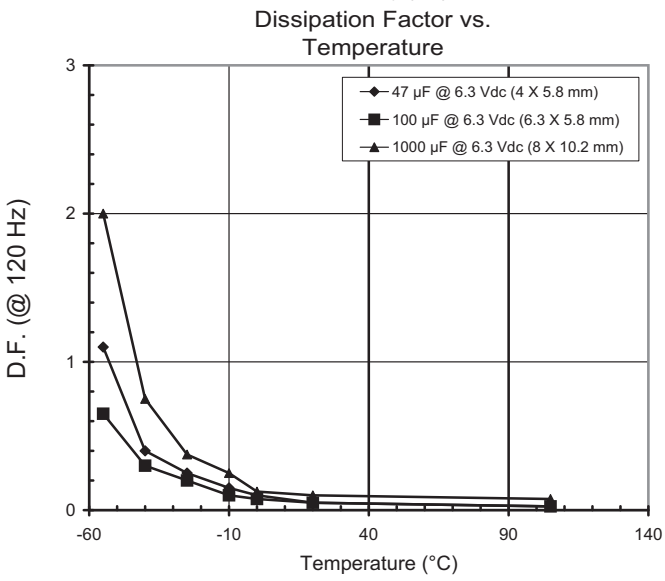


# OCEAN CHIPS
## Океан Электроники
## Поставка электронных компонентов

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**».

AVIC 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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Телефон: 8 (812) 309-75-97 (многоканальный)
Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А