

Aluminum Capacitors

+ 105 °C, General Purpose Miniature, Radial Lead



Fig.1 Component outline

FEATURES

- High CV per case size
- Low cost
- Solvent resistant construction
(through 100 WVDC)
- High temperature operation
- Life test to 2000 hours at + 105 °C


RoHS
COMPLIANT

| QUICK REFERENCE DATA | |
|---|--|
| DESCRIPTION | VALUE |
| Nominal case size Ø D x L in mm | 0.197" x 0.433" [5.0 x 11.0] to 0.709" x 1.575" [18.0 x 40.0] |
| Operating temperature | - 55 °C to + 105 °C (6.3 WVDC to 100 WVDC) - 40 °C to + 105 °C (160 WVDC to 250 WVDC) |
| Rated Capacitance range, C _R | 0.47 µF to 15 000 µF |
| Tolerance on C _R | ± 20 % |
| Rated voltage range, U _R | 6.3 WVDC to 250 WVDC |
| Termination | 2 radial leads |
| Life validation test at 105 °C | 2000 hours: Δ CAP ± 20 % from initial measurement. Δ DF 2 x initial specified limit. Δ DCL ≤ initial specified limit. |
| Shelf life at 105 °C | 1000 hours: Δ CAP ± 20 % from initial measurement. Δ DF 2 x initial specified limit. Δ DCL ≤ initial specified limit |
| DC leakage current | Rated voltage for 1 minute for 6.3 WVDC to 100 WVDC units: I < 0.03 CV or 4 µA (whichever is greater). Rated voltage for 2 minutes for 6.3 WVDC to 100 WVDC units: I < 0.04 CV or 3 µA (whichever is greater). rated voltage for 1 minute for 160 WVDC to 250 WVDC units: I < 0.1 CV + 40 µA and CV > 1000; I < 0.04 CV + 100 µA and CV > 1000 |

| RIPPLE CURRENT MULTIPLIERS | | | | | | |
|----------------------------|---------------|---------|-------------|-----------|-------|----------|
| TEMPERATURE | | | | | | |
| Ambient Temperature | | | Multipliers | | | |
| + 70 °C | | | 1.78 | | | |
| + 85 °C | | | 1.4 | | | |
| + 105 °C | | | 1.0 | | | |
| FREQUENCY (Hz) | | | | | | |
| WVDC | Cap. (µF) | 50 - 60 | 100 - 120 | 300 - 400 | 1 kHz | ≤ 10 kHz |
| 6.3 - 100 | 0 - 47 | 0.75 | 1 | 1.35 | 1.57 | 2.00 |
| | 100 - 470 | 0.80 | 1 | 1.23 | 1.34 | 1.50 |
| | 1000 - 22 000 | 0.85 | 1 | 1.10 | 1.13 | 1.15 |
| 160 - 250 | 0.47 - 100 | 0.80 | 1 | 1.25 | 1.40 | 1.60 |

| LOW TEMPERATURE PERFORMANCE | | |
|---|---------------------|---------------------|
| MAXIMUM IMPEDANCE RATIO Z ^(T) /Z ^(+20 °C) | | |
| MAXIMUM AT 120 Hz | | |
| Rated Voltage (WVDC) | Z - 25 °C/Z + 20 °C | Z - 40 °C/Z + 20 °C |
| 6.3 | 4.0 | 8.0 |
| 10.0 | 3.0 | 6.0 |
| 16.0 | 2.0 | 4.0 |
| 25.0 - 100.0 | 2.0 | 3.0 |
| 160.0 - 200.0 | 2.0 | 4.0 |
| 250.0 | 4.0 | 6.0 |

| DIMENSIONS in inches [millimeters] | | | | |
|------------------------------------|-----------------------------|-------------------|----------------------------|---------------------------|
| CASE CODE | NOMINAL CASE SIZE D X L | LEAD SPACING S | NOMINAL LEAD DIAMETER D | TYPICAL WEIGHT (GRAMS) |
| JA | 0.197 x .433 [5.0 x 11.0] | 0.079 [2.0] | 0.020 [0.50] | 0.44 |
| AA | 0.248 x .433 [6.3 x 11.0] | 0.098 [2.5] | 0.020 [0.50] | 0.63 |
| BB | 0.315 x .453 [8.0 x 11.5] | 0.138 [3.5] | 0.024 [0.60] | 1.03 |
| CC | 0.394 x .492 [10.0 x 12.5] | 0.197 [5.0] | 0.024 [0.60] | 1.53 |
| CD | 0.394 x .630 [10.0 x 16.0] | 0.197 [5.0] | 0.024 [0.60] | 1.86 |
| CG | 0.394 x .787 [10.0 x 20.0] | 0.197 [5.0] | 0.024 [0.60] | 2.48 |
| DG | 0.492 x 0.787 [12.5 x 20.0] | 0.197 [5.0] | 0.024 [0.60] | 3.98 |

| DIMENSIONS in inches [millimeters] | | | | |
|------------------------------------|-----------------------------|----------------|-------------------------|------------------------|
| CASE CODE | NOMINAL CASE SIZE D X L | LEAD SPACING S | NOMINAL LEAD DIAMETER D | TYPICAL WEIGHT (GRAMS) |
| DK | 0.492 x 0.984 [12.5 x 25.0] | 0.197 [5.0] | 0.024 [0.60] | 5.27 |
| EK | 0.630 x 0.984 [16.0 x 25.0] | 0.295 [7.5] | 0.031 [0.80] | 7.72 |
| EN | 0.630 x 1.24 [16.0 x 31.5] | 0.295 [7.5] | 0.031 [0.80] | 9.90 |
| ER | 0.630 x 1.40 [16.0 x 35.5] | 0.295 [7.5] | 0.031 [0.80] | 11.10 |
| FR | 0.709 x 1.40 [18.0 x 35.5] | 0.295 [7.5] | 0.031 [0.80] | 13.04 |
| FV | 0.709 x 1.575 [18.0 x 40.0] | 0.295 [7.5] | 0.031 [0.80] | 15.74 |

ELECTROLYTIC CAPACITOR WITH CUT OR FORMED LEADS in inches [millimeters]



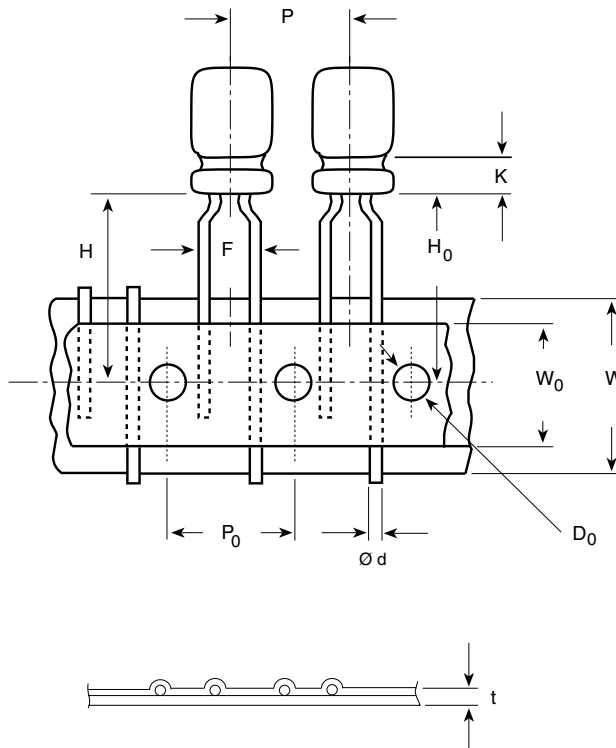
| DIMENSIONS in inches [millimeters] | | | | | | |
|------------------------------------|------------------|--------------|-------------|-------------|-------------|-------------|
| FORMING METHOD | FORMED LEAD CODE | DIMENSIONS | | | | |
| | | D | L.S. | P | e*** | X (Max.) |
| Formed and Cut | F | 0.197 [5.0] | 0.197 [5.0] | 0.079 [2.0] | - | 0.059 [1.5] |
| | | 0.248 [6.3] | 0.197 [5.0] | 0.098 [2.5] | - | 0.098 [2.5] |
| | | 0.315 [8.0] | 0.197 [5.0] | 0.138 [3.5] | - | 0.098 [2.5] |
| Cut | C | 0.394 [10.0] | 0.197 [5.0] | - | - | - |
| | | 0.492 [12.5] | 0.197 [5.0] | - | - | - |
| | | 0.630 [16.0] | 0.295 [7.5] | - | - | - |
| | | 0.709 [18.0] | 0.295 [7.5] | - | - | - |
| Snap-in | S | 0.197 [5.0] | 0.197 [5.0] | 0.079 [2.0] | 0.043 [1.1] | 0.059 [1.5] |
| | | 0.248 [6.3] | 0.197 [5.0] | 0.098 [2.5] | 0.043 [1.1] | 0.059 [1.5] |
| | | 0.315 [8.0] | 0.197 [5.0] | 0.138 [3.5] | 0.051 [1.3] | 0.059 [1.5] |
| | | 0.394 [10.0] | 0.197 [5.0] | - | 0.051 [1.3] | - |
| | | 0.492 [12.5] | 0.197 [5.0] | - | 0.051 [1.3] | - |
| | | 0.630 [16.0] | 0.295 [7.5] | - | 0.051 [1.3] | - |
| 0.709 [18.0] | 0.295 [7.5] | - | 0.051 [1.3] | - | | |

Note: The cut or formed code is to be added to the end of type number in 15th position (with position 14 coded "6").
* Formed lead. ** Lead thickness Ø d depends on capacitor specification. *** Lead protrusion at bottom of tape.

| TAPED CAPACITORS FOR AUTOMATIC INSERTION SYSTEMS in inches [millimeters] | | | | | |
|--|-----------|---------------|----------|-------------|--|
| PACKAGING | LEAD CODE | SPECIFICATION | | LEAD SPACE | CAPACITOR SIZES AVAILABLE |
| | | LEAD STYLE | + LEADER | | |
| Ammo Pack | P | Formed Lead** | - | 0.197 [5.0] | 0.197 x 0.433 [5.0 x 11.0] - 0.492 x 0.787 [4.0 x 7.0 - 12.5 x 20.0] |

Note: The ammo pack code is to be added to the end of type number in the 15th position (with position 14 coded as "8" as appropriate.)
** Except 0.394 [10.0 mm] and 0.492 [12.5 mm] diameter have straight unformed leads.

TAPING SPECIFICATIONS in inches [millimeters]

Formed Lead Type


| DIMENSIONS in inches [millimeters] | | | | | |
|---|----------------------------------|-------------------------------|-------------------------------|------------------------|------------------------|
| ITEM | CASE SIZE (Diameter x Length) | | | | |
| | FORMED LEAD TYPE | | | STRAIGHT LEAD TYPE | |
| | 0.197 x 0.433 [5.0 x 11.0] | 0.248 x 0.433 [6.3 x 11.0] | 0.315 x 0.452 [8.0 x 11.5] | 0.394 [10.0] (Dia.) | 0.492 [12.5] (Dia.) |
| Ø d - Lead-wire Diameter | 0.020 [0.5] | 0.020 [0.5] | 0.024 [0.6] | 0.024 [0.6] | 0.024 [0.6] |
| P - Pitch of Component | 0.500 [12.7] | 0.500 [12.7] | 0.500 [12.7] | 0.500 [12.7] | 0.591 [15.0] |
| P ₀ - Feed Hole Pitch | 0.500 [12.7] | 0.500 [12.7] | 0.500 [12.7] | 0.500 [12.7] | 0.591 [15.0] |
| F - Lead-to-lead Distance | 0.197 [5.0] | 0.197 [5.0] | 0.197 [5.0] | 0.197 [5.0] | 0.197 [5.0] |
| K - Clinch Height | 0.098 [2.5] | 0.098 [2.5] | 0.157 [4.0] | — | — |
| H - Height of Component from Tape Center | 0.728 [18.5] | 0.728 [18.5] | 0.787 [20.0] | 0.728 [18.5] | 0.630 [16.0] |
| H ₀ - Lead-wire Clinch Height | 0.630 [16.0] | 0.630 [16.0] | 0.630 [16.0] | — | — |
| W - Tape Width | 0.709 [18.0] | 0.709 [18.0] | 0.709 [18.0] | 0.709 [18.0] | 0.709 [18.0] |
| W ₀ - Hold Down Tape Width | 0.512 [13.0] | 0.512 [13.0] | 0.512 [13.0] | 0.512 [13.0] | 0.512 [13.0] |
| D ₀ - Feed Hole Diameter | 0.157 [4.0] | 0.157 [4.0] | 0.157 [4.0] | 0.157 [4.0] | 0.157 [4.0] |
| t - Total Tape Thickness | 0.028 [0.7] | 0.028 [0.7] | 0.028 [0.7] | 0.028 [0.7] | 0.028 [0.7] |



| ELECTRICAL DATA | |
|-----------------|-------------------------------------|
| SYMBOL | DESCRIPTION |
| μF | rated capacitance |
| ± % | M = ± 20 % |
| DC | voltage rating at 105 °C |
| JA | see dimensions in millimeters table |
| 6 | packaging code |
| A | termination |

ORDERING EXAMPLE*

Electrolytic capacitor 517D series

517D 107M 6R3 JA 6A E3

6A = Bulk, Uncut leads.

6C = Cut leads (not stocked).

6F = Formed and cut leads (not stocked).

6S = Snap-in leads (not stocked).

For Cases Codes JA, AA, BB, CC, CD, CG, and DG only:
8P = Ammo-Pack.

All items stating "not stocked" are items that are not generally stocked unless a Purchase Order is placed. Lead time is 16 weeks for these items unless there is excess inventory.

* Suffix E3 denotes lead (Pb)-free/RoHS compliant products.

| ELECTRICAL DATA AND ORDERING INFORMATION | | | | |
|--|-------------------|-----------------------------|---|---------------------------------|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L | Max. RIPPLE at + 105 °C 120 Hz (mA) | Max. DF at + 20 °C 120 Hz |
| 6.3 WVDC at + 105 °C, SURGE = 8 V | | | | |
| 22.0 | 517D226M6R3JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 34.0 | 0.26 |
| 33.0 | 517D336M6R3JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 50.0 | 0.26 |
| 47.0 | 517D476M6R3JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 65.0 | 0.26 |
| 100.0 | 517D107M6R3JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 100.0 | 0.26 |
| 220.0 | 517D227M6R3AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 165.0 | 0.26 |
| 330.0 | 517D337M6R3AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 200.0 | 0.26 |
| 470.0 | 517D477M6R3BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 280.0 | 0.26 |
| 1000.0 | 517D108M6R3CC6AE3 | 0.394 x 0.492 [10.0 x 12.5] | 470.0 | 0.26 |
| 2200.0 | 517D228M6R3DG6AE3 | 0.492 x 0.787 [12.5 x 20.0] | 930.0 | 0.26 |
| 3300.0 | 517D338M6R3DG6AE3 | 0.492 x 0.787 [12.5 x 20.0] | 1100.0 | 0.26 |
| 4700.0 | 517D478M6R3EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 1320.0 | 0.26 |
| 6800.0 | 517D688M6R3EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 1490.0 | 0.26 |
| 10 000.0 | 517D109M6R3EN6AE3 | 0.630 x 1.240 [16.0 x 31.5] | 1830.0 | 0.26 |
| 15 000.0 | 517D159M6R3FR6AE3 | 0.709 x 1.398 [18.0 x 35.5] | 2280.0 | 0.26 |
| 10 WVDC at + 105 °C, SURGE = 13 V | | | | |
| 22.0 | 517D226M010JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 45.0 | 0.22 |
| 33.0 | 517D336M010JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 60.0 | 0.22 |
| 47.0 | 517D476M010JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 75.0 | 0.22 |
| 100.0 | 517D107M010JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 110.0 | 0.22 |
| 220.0 | 517D227M010AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 180.0 | 0.22 |
| 330.0 | 517D337M010BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 255.0 | 0.22 |
| 470.0 | 517D477M010BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 305.0 | 0.22 |
| 1000.0 | 517D108M010CD6AE3 | 0.394 x 0.630 [10.0 x 16.0] | 570.0 | 0.22 |
| 2200.0 | 517D228M010DG6AE3 | 0.492 x 0.787 [12.5 x 20.0] | 1010.0 | 0.22 |
| 3300.0 | 517D338M010DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 1220.0 | 0.22 |
| 4700.0 | 517D478M010EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 1410.0 | 0.22 |
| 6800.0 | 517D688M010EN6AE3 | 0.630 x 1.240 [16.0 x 31.5] | 1610.0 | 0.22 |
| 10 000.0 | 517D109M010FR6AE3 | 0.709 x 1.398 [18.0 x 35.5] | 1980.0 | 0.22 |
| 15 000.0 | 517D159M010FV6AE3 | 0.709 x 1.575 [18.0 x 40.0] | 2470.0 | 0.22 |



Aluminum Capacitors
+ 105 °C, General Purpose Miniature, Radial Lead

Vishay Sprague

| ELECTRICAL DATA AND ORDERING INFORMATION | | | | |
|---|--------------------|------------------------------------|--|--|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L | Max. RIPPLE at + 105 °C 120 Hz (mA) | Max. DF at + 20 °C 120 Hz |
| 16 WVDC at + 105 °C, SURGE = 20 V | | | | |
| 10.0 | 517D106M016JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 35.0 | 0.18 |
| 22.0 | 517D226M016JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 55.0 | 0.18 |
| 33.0 | 517D336M016JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 70.0 | 0.18 |
| 47.0 | 517D476M016JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 85.0 | 0.18 |
| 100.0 | 517D107M016AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 135.0 | 0.18 |
| 220.0 | 517D227M016BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 235.0 | 0.18 |
| 330.0 | 517D337M016BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 285.0 | 0.18 |
| 470.0 | 517D477M016CC6AE3 | 0.394 x .0492 [10.0 x 12.5] | 395.0 | 0.18 |
| 1000.0 | 517D108M016CG6AE3 | 0.394 x 0.787 [10.0 x 20.0] | 700.0 | 0.18 |
| 2200.0 | 517D228M016DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 1150.0 | 0.18 |
| 3300.0 | 517D338M016EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 1350.0 | 0.18 |
| 4700.0 | 517D478M016EN6AE3 | 0.630 x 1.240 [16.0 x 31.5] | 1560.0 | 0.18 |
| 6800.0 | 517D688M016FR6AE3 | 0.709 x 1.398 [18.0 x 35.5] | 1750.0 | 0.18 |
| 10 000.0 | 517D109M016FV6AE3 | 0.709 x 1.575 [18.0 x 40.0] | 2170.0 | 0.18 |
| 25 WVDC at + 105 °C, SURGE = 32V | | | | |
| 4.7 | 517D475M025JA6AE3 | 0.197 x .0433 [5.0 x 11.0] | 24.0 | 0.16 |
| 10.0 | 517D106M025JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 39.0 | 0.16 |
| 22.0 | 517D226M025JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 60.0 | 0.16 |
| 33.0 | 517D336M025JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 75.0 | 0.16 |
| 47.0 | 517D476M025JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 90.0 | 0.16 |
| 100.0 | 517D107M025AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 145.0 | 0.16 |
| 220.0 | 517D227M025BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 250.0 | 0.16 |
| 330.0 | 517D337M025CC6AE3 | 0.394 x 0.492 [10.0 x 12.5] | 355.0 | 0.16 |
| 470.0 | 517D477M025CD6AE3 | 0.394 x 0.630 [10.0 x 16.0] | 470.0 | 0.16 |
| 1000.0 | 517D108M025DG6AE3 | 0.492 x 0.787 [12.5 x 20.0] | 855.0 | 0.16 |
| 2200.0 | 517D228M025EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 1230.0 | 0.16 |
| 3300.0 | 517D338M025EN6AE3 | 0.630 x 1.240 [16.0 x 31.5] | 1450.0 | 0.16 |
| 4700.0 | 517D478M025FR6AE3 | 0.709 x 1.398 [18.0 x 35.5] | 1660.0 | 0.16 |
| 35 WVDC at + 105 °C, SURGE = 44 V | | | | |
| 4.7 | 517D475M035JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 27.0 | 0.13 |
| 10.0 | 517D106M035JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 44.0 | 0.13 |
| 22.0 | 517D226M035JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 65.0 | 0.13 |
| 33.0 | 517D336M035JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 85.0 | 0.13 |
| 47.0 | 517D476M035AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 115.0 | 0.13 |
| 100.0 | 517D107M035BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 190.0 | 0.13 |
| 220.0 | 517D227M035CC6AE3 | 0.394 x 0.492 [10.0 x 12.5] | 325.0 | 0.13 |
| 330.0 | 517D337M035CD6AE3 | 0.394 x 0.630 [10.0 x 16.0] | 440.0 | 0.13 |
| 470.0 | 517D477M035CG6AE3 | 0.394 x 0.787 [10.0 x 20.0] | 580.0 | 0.13 |
| 1000.0 | 517D108M035DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 995.0 | 0.13 |
| 2200.0 | 517D228M035EN6AE3 | 0.630 x 1.240 [16.0 x 31.5] | 1450.0 | 0.13 |
| 3300.0 | 517D338M035FR6AE3 | 0.709 x 1.398 [18.0 x 35.5] | 1660.0 | 0.13 |
| 4700.0 | 517D478M035FV6AE3 | 0.709 x 1.575 [18.0 x 40.0] | 2030.0 | 0.13 |

| ELECTRICAL DATA AND ORDERING INFORMATION | | | | |
|---|--------------------|------------------------------------|--|--|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L | Max. RIPPLE at + 105 °C 120 Hz (mA) | Max. DF at + 20 °C 120 Hz |
| 50 WVDC at + 105 °C, SURGE = 63 V | | | | |
| 0.47 | 517D474M050JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 7.0 | 0.10 |
| 1.0 | 517D105M050JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 12.0 | 0.10 |
| 2.2 | 517D225M050JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 18.0 | 0.10 |
| 3.3 | 517D335M050JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 25.0 | 0.10 |
| 4.7 | 517D475M050JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 30.0 | 0.10 |
| 10.0 | 517D106M050JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 50.0 | 0.10 |
| 22.0 | 517D226M050JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 75.0 | 0.10 |
| 33.0 | 517D336M050M6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 105.0 | 0.10 |
| 47.0 | 517D476M050AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 125.0 | 0.10 |
| 100.0 | 517D107M050BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 210.0 | 0.10 |
| 220.0 | 517D227M050CD6AE3 | 0.394 x 0.630 [10.0 x 16.0] | 400.0 | 0.10 |
| 330.0 | 517D337M050CG6AE3 | 0.394 x 0.787 [10.0 x 20.0] | 535.0 | 0.10 |
| 470.0 | 517D477M050DG6AE3 | 0.492 x 0.787 [12.5 x 20.0] | 730.0 | 0.10 |
| 1000.0 | 517D108M050EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 1110.0 | 0.10 |
| 2200.0 | 517D228M050FR6AE3 | 0.709 x 1.398 [18.0 x 35.5] | 1530.0 | 0.10 |
| 63 WVDC at + 105 °C, SURGE = 79 V | | | | |
| 4.7 | 517D475M063JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 34.0 | 0.09 |
| 10.0 | 517D106M063JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 55.0 | 0.09 |
| 22.0 | 517D226M063AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 90.0 | 0.09 |
| 33.0 | 517D336M063AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 110.0 | 0.09 |
| 47.0 | 517D476M063BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 155.0 | 0.09 |
| 100.0 | 517D107M063CC6AE3 | 0.394 x .0492 [10.0 x 12.5] | 260.0 | 0.09 |
| 220.0 | 517D227M063CG6AE3 | 0.394 x 0.787 [10.0 x 20.0] | 465.0 | 0.09 |
| 330.0 | 517D337M063DG6AE3 | 0.492 x 0.787 [12.5 x 20.0] | 650.0 | 0.09 |
| 4700.0 | 517D477M063DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 800.0 | 0.09 |
| 1000.0 | 517D108M063EN6AE3 | 0.630 x 1.240 [16.0 x 31.5] | 1200.0 | 0.09 |
| 2200.0 | 517D228M063FV6AE3 | 0.709 x 1.575 [18.0 x 40.0] | 1840.0 | 0.09 |
| 100 WVDC at + 105 °C, SURGE = 125 V | | | | |
| 0.47 | 517D474M100JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 10.0 | 0.08 |
| 1.0 | 517D105M100JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 15.0 | 0.08 |
| 2.2 | 517D225M100JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 22.0 | 0.08 |
| 3.3 | 517D335M100JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 29.0 | 0.08 |
| 4.7 | 517D475M100JA6AE3 | 0.197 x 0.433 [5.0 x 11.0] | 37.0 | 0.08 |
| 10.0 | 517D106M100AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 65.0 | 0.08 |
| 22.0 | 517D226M100BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 115.0 | 0.08 |
| 33.0 | 517D336M100CC6AE3 | 0.394 x 0.492 [10.0 x 12.5] | 160.0 | 0.08 |
| 47.0 | 517D476M100CD6AE3 | 0.394 x 0.630 [10.0 x 16.0] | 220.0 | 0.08 |
| 100.0 | 517D107M100DG6AE3 | 0.492 x 0.787 [12.5 x 20.0] | 385.0 | 0.08 |
| 220.0 | 517D227M100EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 590.0 | 0.08 |
| 330.0 | 517D337M100EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 720.0 | 0.08 |
| 470.0 | 517D477M100EN6AE3 | 0.630 x 1.240 [16.0 x 31.5] | 875.0 | 0.08 |
| 1000.0 | 517D108M100FV6AE3 | 0.709 x 1.575 [18.0 x 40.0] | 1320.0 | 0.08 |



| ELECTRICAL DATA AND ORDERING INFORMATION | | | | |
|---|--------------------|------------------------------------|--|--|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L | Max. RIPPLE at + 105 °C 120 Hz (mA) | Max. DF at + 20 °C 120 Hz |
| 160 WVDC at + 105 °C, SURGE = 200 V | | | | |
| 0.47 | 517D474M160AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 12.0 | 0.15 |
| 1.0 | 517D105M160AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 17.0 | 0.15 |
| 2.2 | 517D225M160AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 25.0 | 0.15 |
| 3.3 | 517D335M160BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 36.0 | 0.15 |
| 4.7 | 517D475M160BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 43.0 | 0.15 |
| 10.0 | 517D106M160CC6AE3 | 0.394 x 0.492 [10.0 x 12.5] | 70.0 | 0.15 |
| 22.0 | 517D226M160CG6AE3 | 0.394 x 0.787 [10.0 x 20.0] | 130.0 | 0.15 |
| 33.0 | 517D336M160DG6AE3 | 0.492 x 0.787 [12.5 x 20.0] | 180.0 | 0.15 |
| 47.0 | 517D476M160DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 220.0 | 0.15 |
| 100.0 | 517D107M160EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 330.0 | 0.15 |
| 220.0 | 517D227M160FR6AE3 | 0.709 x 1.398 [18.0 x 35.5] | 500.0 | 0.15 |
| 200 WVDC at + 105 °C, SURGE = 250 V | | | | |
| 0.47 | 517D474M200AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 12.0 | 0.15 |
| 1.0 | 517D105M200AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 17.0 | 0.15 |
| 2.2 | 517D225M200AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 25.0 | 0.15 |
| 3.3 | 517D335M200BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 36.0 | 0.15 |
| 4.7 | 517D475M200CC6AE3 | 0.394 x 0.492 [10.0 x 12.5] | 50.0 | 0.15 |
| 10.0 | 517D106M200CD6AE3 | 0.394 x 0.630 [10.0 x 16.0] | 80.0 | 0.15 |
| 22.0 | 517D226M200CG6AE3 | 0.394 x 0.787 [10.0 x 20.0] | 140.0 | 0.15 |
| 33.0 | 517D336M200DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 198.0 | 0.15 |
| 47.0 | 517D476M200DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 220.0 | 0.15 |
| 100.0 | 517D107M200EN6AE3 | 0.630 x 1.240 [16.0 x 31.5] | 335.0 | 0.15 |
| 220.0 | 517D227M200FV6AE3 | 0.709 x 1.575 [18.0 x 40.0] | 515.0 | 0.15 |
| 250 WVDC at + 105 °C, SURGE = 300 V | | | | |
| 0.47 | 517D474M250AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 12.0 | 0.15 |
| 1.0 | 517D105M250AA6AE3 | 0.248 x 0.433 [6.3 x 11.0] | 17.0 | 0.15 |
| 2.2 | 517D225M250BB6AE3 | 0.315 x 0.453 [8.0 x 11.5] | 29.0 | 0.15 |
| 3.3 | 517D335M250CC6AE3 | 0.394 x 0.492 [10.0 x 12.5] | 42.0 | 0.15 |
| 4.7 | 517D475M250CC6AE3 | 0.394 x 0.492 [10.0 x 12.5] | 50.0 | 0.15 |
| 10.0 | 517D106M250CG6AE3 | 0.394 x 0.787 [10.0 x 20.0] | 88.0 | 0.15 |
| 22.0 | 517D226M250DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 155.0 | 0.15 |
| 33.0 | 517D336M250DK6AE3 | 0.492 x 0.984 [12.5 x 25.0] | 190.0 | 0.15 |
| 47.0 | 517D476M250EK6AE3 | 0.630 x 0.984 [16.0 x 25.0] | 230.0 | 0.15 |
| 100.0 | 517D107M250FR6AE3 | 0.709 x 1.398 [18.0 x 35.5] | 340.0 | 0.15 |



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