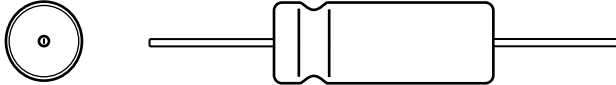


Aluminum Capacitors +85 °C, Miniature, General Purpose


FEATURES

- Increased CV efficiency
- New 0.709" [18.0 mm] diameter case size
- Axial lead
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



| QUICK REFERENCE DATA | |
|---|--|
| DESCRIPTION | VALUE |
| Nominal case size Ø D x L in mm | 0.248" x 0.512" [6.3 x 13.0] to 0.709" x 1.574" [18.0 x 40.0] |
| Operating temperature | -40 °C to +85 °C (3 WV _{DC} to 250 WV _{DC}) -20 °C to +85 °C (251 WV _{DC} to 450 WV _{DC}) |
| Rated capacitance range, C _R | 0.22 µF to 10 000 µF |
| Tolerance on C _R | ± 20 % |
| Rated voltage range, U _R | 6.3 WV _{DC} to 450 WV _{DC} |
| Life validation test at 85 °C | 2000 h: ΔCAP ≤ 20 % from initial measurement. ΔESR ≤ 1.5 x initial specified limit. ΔDCL ≤ initial specified limit. |
| Shelf life at 85 °C | 500 h: ΔCAP ≤ 20 % from initial measurement. ΔESR ≤ 1.5 x initial specified limit. ΔDCL ≤ 2.0 x initial specified limit. |
| DC leakage current | I = 0.01 CV + 10 µA (3 V _{DC} to 100 V _{DC}) I = 0.03 CV + 20 µA (101 V _{DC} to 450 V _{DC}) I in µA, C in µF, V in Volts |

| RIPPLE CURRENT MULTIPLIERS | | | | |
|----------------------------|----------|-------------|------------|------------|
| TEMPERATURE | | | | |
| AMBIENT TEMPERATURE | | MULTIPLIERS | | |
| +85 °C | | 1.0 | | |
| +75 °C | | 1.25 | | |
| ≤ 65 °C | | 1.5 | | |
| FREQUENCY (Hz) | | | | |
| WV _{DC} | 50 TO 60 | 100 TO 120 | 300 TO 400 | 1K TO 100K |
| 0 to 50 | 0.85 | 1.0 | 1.05 | 1.1 |
| 51 to 450 | 0.80 | 1.0 | 1.30 | 1.5 |

| DIMENSIONS in inches [millimeters] | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| CASE CODE | NOMINAL | | STYLE 2 | | STYLE 5 | |
| | D | L | D (max.) | L (max.) | D (max.) | L (max.) |
| BA | 0.248 [6.300] | 0.512 [13.000] | 0.276 [7.000] | 0.567 [14.400] | 0.276 [7.000] | 0.626 [15.900] |
| BB | 0.248 [6.300] | 0.689 [17.500] | 0.276 [7.000] | 0.756 [19.200] | 0.276 [7.000] | 0.815 [20.700] |
| CB | 0.315 [8.000] | 0.689 [17.500] | 0.339 [8.600] | 0.756 [19.200] | 0.339 [8.600] | 0.815 [20.700] |
| CC | 0.315 [8.000] | 0.807 [20.500] | 0.339 [8.600] | 0.878 [22.300] | 0.339 [8.600] | 0.937 [23.800] |
| DC | 0.374 [9.500] | 0.807 [20.500] | 0.402 [10.200] | 0.878 [22.300] | 0.402 [10.200] | 0.937 [23.800] |
| DD | 0.374 [9.500] | 0.945 [24.000] | 0.402 [10.200] | 1.010 [25.500] | 0.402 [10.200] | 1.063 [27.000] |
| DF | 0.374 [9.500] | 1.260 [32.000] | 0.402 [10.200] | 1.319 [33.500] | 0.402 [10.200] | 1.378 [35.000] |
| DH | 0.374 [9.500] | 1.496 [38.000] | 0.402 [10.200] | 1.567 [39.800] | 0.402 [10.200] | 1.626 [41.300] |
| EF | 0.433 [11.000] | 1.260 [32.000] | 0.465 [11.800] | 1.319 [33.500] | 0.465 [11.800] | 1.378 [35.000] |
| EH | 0.433 [11.000] | 1.496 [38.000] | 0.465 [11.800] | 1.567 [39.800] | 0.465 [11.800] | 1.626 [41.300] |
| FH | 0.492 [12.500] | 1.496 [38.000] | 0.516 [13.100] | 1.567 [39.800] | 0.516 [13.100] | 1.626 [41.300] |
| FK | 0.492 [12.500] | 1.752 [44.500] | 0.516 [13.100] | 1.831 [46.500] | 0.516 [13.100] | 1.890 [48.000] |
| GH | 0.630 [16.000] | 1.496 [38.000] | 0.654 [16.600] | 1.567 [39.800] | 0.654 [16.600] | 1.626 [41.300] |
| GK | 0.630 [16.000] | 1.752 [44.500] | 0.654 [16.600] | 1.831 [46.500] | 0.654 [16.600] | 1.890 [48.000] |
| LS | 0.709 [18.000] | 1.575 [40.000] | 0.736 [18.700] | 1.673 [42.500] | 0.736 [18.700] | 1.693 [43.000] |

Note

- Lead diameter AWG 20 (0.032" [0.81 mm])

**ORDERING EXAMPLE**

Electrolytic capacitor 500D series: 500D 686 M 6R3 BA 2 A

| DESCRIPTION | |
|-------------|--|
| CODE | EXPLANATION |
| 500D | Product type |
| 686 | Capacitance value (68 μ F) |
| M | Tolerance (M = \pm 20 %) |
| 6R3 | Voltage rating at 85 °C (6R3 = 6.3 V) |
| BA | Can size (see dimensions table) |
| 2 | Sleeve and sealing (2 = P.V.C. sleeve) |
| A | Packaging (A = bulk) |

Note

- For lead (Pb)-free/RoHS compliant products add suffix "E3" to part number.
Example: 500D686M6R3BA2AE3

| ELECTRICAL DATA AND ORDERING INFORMATION | | |
|---|-----------------|-----------------------------|
| CAPACITANCE (μ F) | PART NUMBER | NOMINAL CASE SIZE D x L |
| 6.3 WV_{DC} AT +85 °C, SURGE = 8 V | | |
| 68 | 500D686M6R3BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 150 | 500D157M6R3BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 220 | 500D227M6R3CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 330 | 500D337M6R3CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 680 | 500D687M6R3DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 820 | 500D827M6R3DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 1200 | 500D128M6R3DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 2200 | 500D228M6R3DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 2200 | 500D228M6R3EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 3300 | 500D338M6R3EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 3300 | 500D338M6R3FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 4700 | 500D478M6R3FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 5600 | 500D568M6R3GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 8200 | 500D828M6R3GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 10 000 | 500D109M6R3LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 10 WV_{DC} AT +85 °C, SURGE = 12 V | | |
| 47 | 500D476M010BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 100 | 500D107M010BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 220 | 500D227M010CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 330 | 500D337M010CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 470 | 500D477M010DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 680 | 500D687M010DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 1000 | 500D108M010DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 1500 | 500D158M010DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 1800 | 500D188M010EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 2200 ⁽¹⁾ | 500D228M010EH2 | 0.433 x 1.496 [11.0 x 38.0] |
| 2700 | 500D278M010EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 2700 | 500D278M010FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 3300 ⁽¹⁾ | 500D338M010GH2 | 0.630 x 1.496 [16.0 x 38.0] |
| 3900 | 500D398M010FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 4700 | 500D478M010GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 6800 | 500D688M010GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 8200 | 500D828M010LS2A | 0.709 x 1.575 [18.0 x 40.0] |

Note

- ⁽¹⁾ Original part numbers not recommended for new equipment designs. For epoxy end seal, change "2" designation to "5".
"5" is not normally stocked.



| ELECTRICAL DATA AND ORDERING INFORMATION | | |
|---|-----------------|-----------------------------|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L |
| 12 WV_{DC} AT +85 °C, SURGE = 15 V | | |
| 39 | 500D396M012BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 68 | 500D686M012BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 150 | 500D157M012CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 220 | 500D227M012CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 330 | 500D337M012DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 560 | 500D567M012DD2A | 0.374 x 0.807 [9.5 x 20.5] |
| 820 | 500D827M012DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 1200 | 500D128M012DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 1500 | 500D158M012EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 2200 | 500D228M012EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 2200 | 500D228M012FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 2700 | 500D278M012FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 3900 | 500D398M012GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 5600 | 500D568M012GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 6800 | 500D688M012LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 16 WV_{DC} AT +85 °C, SURGE = 20 V | | |
| 33 | 500D336M016BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 68 | 500D686M016BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 100 ⁽¹⁾ | 500D107M016CB2 | 0.315 x 0.689 [8.0 x 17.5] |
| 150 | 500D157M016CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 220 | 500D227M016CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 330 | 500D337M016DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 470 | 500D477M016DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 680 | 500D687M016DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 1000 ⁽¹⁾ | 500D108M016DH2 | 0.374 x 1.496 [9.5 x 38.0] |
| 1200 | 500D128M016DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 1200 | 500D128M016EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 1500 ⁽¹⁾ | 500D158M016EH2 | 0.433 x 1.496 [11.0 x 38.0] |
| 1800 | 500D188M016EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 1800 | 500D188M016FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 2200 ⁽¹⁾ | 500D228M016FK2 | 0.492 x 1.752 [12.5 x 44.5] |
| 2700 | 500D278M016FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 3300 | 500D338M016GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 3300 ⁽¹⁾ | 500D338M016GK2 | 0.630 x 1.752 [16.0 x 44.5] |
| 4700 | 500D478M016GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 5600 | 500D568M016LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 25 WV_{DC} AT +85 °C, SURGE = 35 V | | |
| 22 | 500D226M025BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 33 ⁽¹⁾ | 500D336M025BB2 | 0.248 x 0.689 [6.3 x 17.5] |
| 47 | 500D476M025BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 68 | 500D686M025CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 100 | 500D107M025CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 150 ⁽¹⁾ | 500D157M025DC2 | 0.374 x 0.807 [9.5 x 20.5] |
| 220 | 500D227M025DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 330 | 500D337M025DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 330 ⁽¹⁾ | 500D337M025DF2 | 0.374 x 1.260 [9.5 x 32.0] |
| 470 | 500D477M025DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 820 | 500D827M025DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 680 | 500D687M025EF2A | 0.433 x 1.260 [11.0 x 32.0] |

Note

⁽¹⁾ Original part numbers not recommended for new equipment designs. For epoxy end seal, change "2" designation to "5".
"5" is not normally stocked.



| ELECTRICAL DATA AND ORDERING INFORMATION | | |
|---|--------------------|------------------------------------|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L |
| 25 WV_{DC} AT +85 °C, SURGE = 35 V | | |
| 1000 ⁽¹⁾ | 500D108M025FH2 | 0.492 x 1.496 [12.5 x 38.0] |
| 1200 | 500D128M025EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 1200 | 500D128M025FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 1800 | 500D188M025FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 1800 | 500D188M025GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 2200 ⁽¹⁾ | 500D228M025GK2 | 0.630 x 1.752 [16.0 x 44.5] |
| 2700 | 500D278M025GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 3300 | 500D338M025LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 35 WV_{DC} AT +85 °C, SURGE = 40 V | | |
| 15 ⁽¹⁾ | 500D156M035BA2 | 0.248 x 0.512 [6.3 x 13.0] |
| 47 ⁽¹⁾ | 500D476M035CB2 | 0.315 x 0.689 [8.0 x 17.5] |
| 330 ⁽¹⁾ | 500D337M035DH2 | 0.374 x 1.496 [9.5 x 38.0] |
| 470 ⁽¹⁾ | 500D477M035EH2 | 0.433 x 1.496 [11.0 x 38.0] |
| 680 ⁽¹⁾ | 500D687M035FK2 | 0.492 x 1.752 [12.5 x 44.5] |
| 1000 ⁽¹⁾ | 500D108M035GH2 | 0.630 x 1.496 [16.0 x 38.0] |
| 40 WV_{DC} AT +85 °C, SURGE = 50 V | | |
| 15 | 500D156M040BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 22 | 500D226M040BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 47 | 500D476M040CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 68 | 500D686M040CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 100 | 500D107M040DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 180 | 500D187M040DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 270 | 500D277M040DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 470 | 500D477M040DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 470 | 500D477M040EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 680 | 500D687M040EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 680 | 500D687M040FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 1000 | 500D108M040FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 1200 | 500D128M040GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 1800 | 500D188M040GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 2200 | 500D228M040LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 50 WV_{DC} AT +85 °C, SURGE = 65 V | | |
| 10 | 500D106M050BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 22 | 500D226M050BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 33 | 500D336M050CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 68 | 500D686M050CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 100 | 500D107M050DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 150 | 500D157M050DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 220 | 500D227M050DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 330 | 500D337M050DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 330 | 500D337M050EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 470 | 500D477M050FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 560 | 500D567M050EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 680 ⁽¹⁾ | 500D687M050GH2 | 0.630 x 1.496 [16.0 x 38.0] |
| 820 | 500D827M050FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 820 | 500D827M050GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 1000 ⁽¹⁾ | 500D108M050GK2 | 0.630 x 1.752 [16.0 x 44.5] |
| 1500 | 500D158M050GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 1800 | 500D188M050LS2A | 0.709 x 1.575 [18.0 x 40.0] |

Note

⁽¹⁾ Original part numbers not recommended for new equipment designs. For epoxy end seal, change "2" designation to "5".
"5" is not normally stocked.



| ELECTRICAL DATA AND ORDERING INFORMATION | | |
|---|--------------------|------------------------------------|
| CAPACITANCE (µF) | PART NUMBER | NOMINAL CASE SIZE D x L |
| 63 WV_{DC} AT +85 °C, SURGE = 75 V | | |
| 6.8 | 500D685M063BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 15 | 500D156M063BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 22 ⁽¹⁾ | 500D226M063CB2 | 0.315 x 0.689 [8.0 x 17.5] |
| 33 | 500D336M063CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 47 | 500D476M063CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 68 | 500D686M063DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 100 | 500D107M063DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 150 | 500D157M063DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 220 ⁽¹⁾ | 500D227M063DH2 | 0.374 x 1.496 [9.5 x 38.0] |
| 220 | 500D227M063EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 270 | 500D277M063DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 390 | 500D397M063FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 470 | 500D477M063EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 470 ⁽¹⁾ | 500D477M063FK2 | 0.492 x 1.752 [12.5 x 44.5] |
| 560 | 500D567M063FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 560 | 500D567M063GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 1000 | 500D108M063GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 1200 | 500D128M063LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 80 WV_{DC} AT +85 °C, SURGE = 100 V | | |
| 4.7 ⁽¹⁾ | 500D475M080BA2 | 0.248 x 0.512 [6.3 x 13.0] |
| 47 ⁽¹⁾ | 500D476M080DC2 | 0.374 x 0.807 [9.5 x 20.5] |
| 100 WV_{DC} AT +85 °C, SURGE = 125 V | | |
| 1.0 ⁽¹⁾ | 500D105M100BA2 | 0.248 x 0.512 [6.3 x 13.0] |
| 2.2 ⁽¹⁾ | 500D225M100BA2 | 0.248 x 0.512 [6.3 x 13.0] |
| 3.3 | 500D335M100BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 4.7 | 500D475M100BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 10 | 500D106M100CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 15 | 500D156M100CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 22 | 500D226M100DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 33 ⁽¹⁾ | 500D336M100DD2 | 0.374 x 0.945 [9.5 x 24.0] |
| 39 | 500D396M100DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 47 ⁽¹⁾ | 500D476M100DF2 | 0.374 x 1.260 [9.5 x 32.0] |
| 56 | 500D566M100DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 100 | 500D107M100DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 100 | 500D107M100EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 100 ⁽¹⁾ | 500D107M100EH2 | 0.433 x 1.496 [11.0 x 38.0] |
| 150 | 500D157M100EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 150 | 500D157M100FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 220 | 500D227M100FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 220 | 500D227M100GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 220 ⁽¹⁾ | 500D227M100GK2 | 0.630 x 1.752 [16.0 x 44.5] |
| 390 | 500D397M100GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 470 | 500D477M100LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 150 WV_{DC} AT +85 °C, SURGE = 175 V | | |
| 1.0 ⁽¹⁾ | 500D105M150BA2 | 0.248 x 0.512 [6.3 x 13.0] |
| 10 ⁽¹⁾ | 500D106M150DC2 | 0.374 x 0.807 [9.5 x 20.5] |
| 22 ⁽¹⁾ | 500D226M150DF2 | 0.374 x 1.260 [9.5 x 32.0] |
| 33 ⁽¹⁾ | 500D336M150EF2 | 0.433 x 1.260 [11.0 x 32.0] |
| 47 ⁽¹⁾ | 500D476M150EH2 | 0.433 x 1.496 [11.0 x 38.0] |

Note

⁽¹⁾ Original part numbers not recommended for new equipment designs. For epoxy end seal, change “2” designation to “5”. “5” is not normally stocked.



| ELECTRICAL DATA AND ORDERING INFORMATION | | |
|---|--------------------|------------------------------------|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L |
| 160 WV_{DC} AT +85 °C, SURGE = 180 V | | |
| 1.5 | 500D155M160BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 2.7 | 500D275M160BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 3.3 | 500D335M160CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 6.8 | 500D685M160CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 10 | 500D106M160DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 15 | 500D156M160DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 22 | 500D226M160DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 27 | 500D276M160DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 33 | 500D336M160EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 47 | 500D476M160EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 47 | 500D476M160FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 56 | 500D566M160FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 82 | 500D826M160GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 100 | 500D107M160GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 120 | 500D127M160LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 200 WV_{DC} AT +85 °C, SURGE = 250 V | | |
| 1.2 | 500D125M200BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 2.2 | 500D225M200BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 2.2 ⁽¹⁾ | 500D225M200CB2 | 0.315 x 0.689 [8.0 x 17.5] |
| 2.7 | 500D275M200CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 3.3 ⁽¹⁾ | 500D335M200CC2 | 0.315 x 0.807 [8.0 x 20.5] |
| 4.7 | 500D475M200CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 8.2 | 500D825M200DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 10 | 500D106M200DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 15 | 500D156M200DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 22 | 500D226M200DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 27 | 500D276M200EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 33 | 500D336M200EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 33 ⁽¹⁾ | 500D336M200FK2 | 0.492 x 1.752 [12.5 x 44.5] |
| 39 | 500D396M200FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 47 | 500D476M200FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 68 | 500D686M200GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 82 | 500D826M200GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 100 | 500D107M200LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 250 WV_{DC} AT +85 °C, SURGE = 300 V | | |
| 1.0 | 500D105M250BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 1.5 ⁽¹⁾ | 500D155M250CB2 | 0.315 x 0.689 [8.0 x 17.5] |
| 1.8 | 500D185M250BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 2.2 | 500D225M250CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 2.2 ⁽¹⁾ | 500D225M250CC2 | 0.315 x 0.807 [8.0 x 20.5] |
| 3.3 | 500D335M250CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 4.7 ⁽¹⁾ | 500D475M250DC2 | 0.374 x 0.807 [9.5 x 20.5] |
| 6.8 | 500D685M250DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 8.2 | 500D825M250DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 10 ⁽¹⁾ | 500D106M250DF2 | 0.374 x 1.260 [9.5 x 32.0] |
| 12 | 500D126M250DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 15 ⁽¹⁾ | 500D156M250EF2 | 0.433 x 1.260 [11.0 x 32.0] |
| 18 | 500D186M250DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 18 | 500D186M250EF2A | 0.433 x 1.260 [11.0 x 32.0] |

Note

⁽¹⁾ Original part numbers not recommended for new equipment designs. For epoxy end seal, change “2” designation to “5”. “5” is not normally stocked.



| ELECTRICAL DATA AND ORDERING INFORMATION | | |
|---|--------------------|------------------------------------|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L |
| 250 WV_{DC} AT +85 °C, SURGE = 300 V | | |
| 22 ⁽¹⁾ | 500D226M250EH2 | 0.433 x 1.496 [11.0 x 38.0] |
| 27 | 500D276M250EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 27 | 500D276M250FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 39 | 500D396M250FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 47 | 500D476M250GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 47 ⁽¹⁾ | 500D476M250GK2 | 0.630 x 1.752 [16.0 x 44.5] |
| 56 | 500D566M250GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 82 | 500D826M250LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 350 WV_{DC} AT +85 °C, SURGE = 400 V | | |
| 0.47 | 500D474M350BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 0.82 | 500D824M350BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 1.0 ⁽¹⁾ | 500D105M350CB2 | 0.315 x 0.689 [8.0 x 17.5] |
| 1.2 | 500D125M350CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 1.8 | 500D185M350CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 2.2 ⁽¹⁾ | 500D225M350DC2 | 0.374 x 0.807 [9.5 x 20.5] |
| 3.3 | 500D335M350DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 3.9 | 500D395M350DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 4.7 ⁽¹⁾ | 500D475M350DF2 | 0.374 x 1.260 [9.5 x 32.0] |
| 5.6 | 500D565M350DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 8.2 | 500D825M350DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 10 | 500D106M350EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 10.0 ⁽¹⁾ | 500D106M350EH2 | 0.433 x 1.496 [11.0 x 38.0] |
| 12 | 500D126M350EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 15 | 500D156M350FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 18 | 500D186M350FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 22 | 500D226M350GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 33 | 500D336M350GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 39 | 500D396M350LS2A | 0.709 x 1.575 [18.0 x 40.0] |
| 400 WV_{DC} AT +85 °C, SURGE = 450 V | | |
| 0.27 | 500D274M400BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 0.56 | 500D564M400BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 0.68 | 500D684M400CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 1.0 | 500D105M400CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 1.5 ⁽¹⁾ | 500D155M400DC2 | 0.374 x 0.807 [9.5 x 20.5] |
| 2.2 | 500D225M400DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 2.7 | 500D275M400DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 3.9 | 500D395M400DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 5.6 | 500D565M400DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 6.8 | 500D685M400EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 10 | 500D106M400EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 10 ⁽¹⁾ | 500D106M400FK2 | 0.492 x 1.752 [12.5 x 44.5] |
| 12 | 500D126M400FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 15 | 500D156M400FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 18 | 500D186M400GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 22 | 500D226M400GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 39 | 500D396M400LS2A | 0.709 x 1.575 [18.0 x 40.0] |

Note

⁽¹⁾ Original part numbers not recommended for new equipment designs. For epoxy end seal, change "2" designation to "5".
"5" is not normally stocked.



| ELECTRICAL DATA AND ORDERING INFORMATION | | |
|---|--------------------|------------------------------------|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L |
| 450 WV_{DC} AT +85 °C, SURGE = 500 V | | |
| 0.22 | 500D224M450BA2A | 0.248 x 0.512 [6.3 x 13.0] |
| 0.47 | 500D474M450BB2A | 0.248 x 0.689 [6.3 x 17.5] |
| 0.56 | 500D564M450CB2A | 0.315 x 0.689 [8.0 x 17.5] |
| 0.82 | 500D824M450CC2A | 0.315 x 0.807 [8.0 x 20.5] |
| 1.0 ⁽¹⁾ | 500D105M450DC2 | 0.374 x 0.807 [9.5 x 20.5] |
| 1.8 | 500D185M450DC2A | 0.374 x 0.807 [9.5 x 20.5] |
| 2.2 | 500D225M450DD2A | 0.374 x 0.945 [9.5 x 24.0] |
| 2.2 ⁽¹⁾ | 500D225M450DF2 | 0.374 x 1.260 [9.5 x 32.0] |
| 3.3 | 500D335M450DF2A | 0.374 x 1.260 [9.5 x 32.0] |
| 4.7 | 500D475M450DH2A | 0.374 x 1.496 [9.5 x 38.0] |
| 5.6 | 500D565M450EF2A | 0.433 x 1.260 [11.0 x 32.0] |
| 8.2 | 500D825M450EH2A | 0.433 x 1.496 [11.0 x 38.0] |
| 10 | 500D106M450FH2A | 0.492 x 1.496 [12.5 x 38.0] |
| 10 ⁽¹⁾ | 500D106M450GK2 | 0.630 x 1.752 [16.0 x 44.5] |
| 12 | 500D126M450FK2A | 0.492 x 1.752 [12.5 x 44.5] |
| 15 | 500D156M450GH2A | 0.630 x 1.496 [16.0 x 38.0] |
| 18 | 500D186M450GK2A | 0.630 x 1.752 [16.0 x 44.5] |
| 33 | 500D336M450LS2A | 0.709 x 1.575 [18.0 x 40.0] |

Note

⁽¹⁾ Original part numbers not recommended for new equipment designs. For epoxy end seal, change “2” designation to “5”. “5” is not normally stocked.



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