

Aluminum Capacitors 4-Terminal, Tubular, Axial Lead


FEATURES

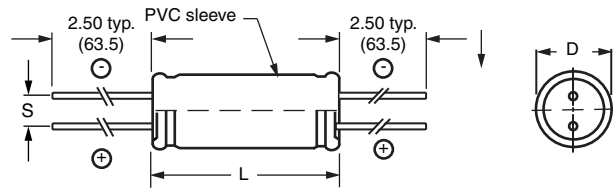
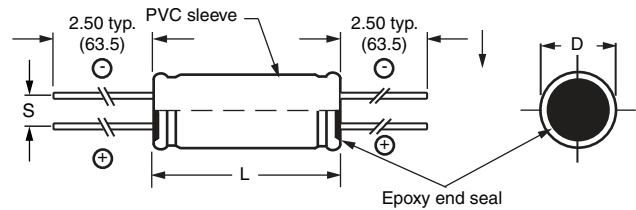
- 4-terminal construction
- Very low impedance
- Inductance limit 2 nH
- Wide temperature range
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



| QUICK REFERENCE DATA | |
|--|---|
| DESCRIPTION | VALUE |
| Nominal case size Ø D x L in mm | 19.050 x 41.275 to 25.400 x 92.075 |
| Operating temperature | - 55 °C to + 105 °C |
| Rated capacitance range, C _R | 47 µF to 22 000 µF |
| Tolerance on C _R | - 10 %, + 50 % |
| Rated voltage range, U _R | 5 WV _{DC} to 200 WV _{DC} |
| Termination | 4-terminal |
| Life validation test 2000 h at 105 °C | ΔCAP < 15 % from initial measurement. ΔESR < 1.5 x initial specified limit. ΔDCL < initial specified limit. |
| Shelf life 500 h at 105 °C | ΔCAP < 10 % from initial measurement. ΔESR < 1.2 x initial specified limit. ΔDCL < 2.0 x initial specified limit. |
| DC leakage current I = K _L /CV | K is a constant: 0.5 at - 25 °C, 3.0 at + 105 °C I in µA, C in µF, V in Volts |

| LOW TEMPERATURE PERFORMANCE | |
|--|-----------------------|
| CAPACITANCE RATIO C ^{-55 °C} /C ^{+25 °C} MINIMUM AT 120 Hz | |
| RATED VOLTAGE WV _{DC} | CAPACITANCE REMAINING |
| 5 to 50 | 75 % |
| 51 and up | 80 % |
| ESR RATIO ESR ^{-55 °C} /ESR ^{+25 °C} MAXIMUM AT 120 Hz | |
| RATED VOLTAGE WV _{DC} | MULTIPLIER |
| 5 to 50 | 12 |
| 51 and up | 18 |

| DIMENSIONS in millimeters | | | | | |
|---------------------------|----------------|----------------|--|----------|-------------------|
| CASE CODE | BARE CASE | | OUTER INSULATION WITH POLYMER COATED END SEALS | | LEAD SPACING S |
| | D | L | D | L (max.) | |
| GJ | 19.050 ± 0.787 | 41.275 ± 1.575 | 20.625 ± 0.787 | 46.812 | 6.350 ± 0.381 |
| GL | 19.050 ± 0.787 | 53.975 ± 1.575 | 20.625 ± 0.787 | 59.512 | 6.350 ± 0.381 |
| GP | 19.050 ± 0.787 | 66.675 ± 1.575 | 20.625 ± 0.787 | 72.212 | 6.350 ± 0.381 |
| GS | 19.050 ± 0.787 | 79.375 ± 1.575 | 20.625 ± 0.787 | 84.912 | 6.350 ± 0.381 |
| GT | 19.050 ± 0.787 | 92.075 ± 1.575 | 20.625 ± 0.787 | 97.612 | 6.350 ± 0.381 |
| HJ | 22.225 ± 0.787 | 28.575 ± 1.575 | 23.800 ± 0.787 | 34.112 | 7.620 ± 0.381 |
| HL | 22.225 ± 0.787 | 66.675 ± 1.575 | 23.800 ± 0.787 | 72.212 | 7.620 ± 0.381 |
| HP | 22.225 ± 0.787 | 53.975 ± 1.575 | 23.800 ± 0.787 | 59.512 | 7.620 ± 0.381 |
| HS | 22.225 ± 0.787 | 92.075 ± 1.575 | 23.800 ± 0.787 | 97.612 | 7.620 ± 0.381 |
| HT | 22.225 ± 0.787 | 79.375 ± 1.575 | 23.800 ± 0.787 | 84.912 | 7.620 ± 0.381 |
| JJ | 25.400 ± 0.787 | 41.275 ± 1.575 | 26.975 ± 0.787 | 46.812 | 10.160 ± 0.381 |
| JL | 25.400 ± 0.787 | 53.975 ± 1.575 | 26.975 ± 0.787 | 59.512 | 10.160 ± 0.381 |
| JP | 25.400 ± 0.787 | 66.675 ± 1.575 | 26.975 ± 0.787 | 72.212 | 10.160 ± 0.381 |
| JS | 25.400 ± 0.787 | 79.375 ± 1.575 | 26.975 ± 0.787 | 84.912 | 10.160 ± 0.381 |
| JT | 25.400 ± 0.787 | 92.075 ± 1.575 | 26.975 ± 0.787 | 97.612 | 10.160 ± 0.381 |

DIMENSIONS AND AVAILABLE FORMS
Styles 1 and 2

Styles 5 and 7

PART NUMBER INFORMATION

| 604D TYPE | 272 CAPACITANCE | F CAPACITANCE TOLERANCE | 005 DC VOLTAGE RATING | GJ CASE CODE | 2 CASE STYLE |
|-----------------------------|--|-------------------------------|--|----------------------|---|
| Identifies the series name. | Expressed in μF . The first two digits are significant figures. The third is the number of zeros. | F = - 10 %/+ 50 % (std.) | Expressed in volts. The letter "R" signifies a decimal point (i.e. 7R5 = 7.5 V). | See table Dimensions | 1 = PVC sleeve 2 = Polyester sleeve (std.) 5 = Polyester sleeve with epoxy end seal (required for exposure to halogenated cleaning solvents) 7 = PVC sleeve with epoxy end seal (required for exposure to halogenated cleaning solvents) |

ORDERING EXAMPLE (1)

Electrolytic capacitor 604D series: 604D272F005GJ2

Note

(1) For lead (Pb)-free/RoHS compliant products add suffix "E3" to part number. Example: 604D272F005GJ2E3

ELECTRICAL DATA AND ORDERING INFORMATION

| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L (mm) | MAX. ESR AT 100 kHz/25 °C (Ω) | MAX. Z AT 100 kHz/25 °C (Ω) | MAX. RIPPLE CURRENT AT 100 kHz/85 °C (A) |
|--|----------------|------------------------------------|--|--|--|
| 5 WV_{DC} AT + 85 °C, SURGE = 7 V | | | | | |
| 2700 | 604D272F005GJ2 | 19.05 x 41.28 | 0.146 | 0.110 | 1.50 |
| 3300 | 604D332F005GL2 | 19.05 x 53.98 | 0.106 | 0.080 | 1.80 |
| 4700 | 604D472F005GP2 | 19.05 x 66.68 | 0.080 | 0.060 | 2.50 |
| 6800 | 604D682F005GS2 | 19.05 x 79.38 | 0.062 | 0.047 | 3.10 |
| 3900 | 604D392F005HJ2 | 22.23 x 41.28 | 0.095 | 0.071 | 1.90 |
| 5600 | 604D562F005HL2 | 22.23 x 53.98 | 0.070 | 0.053 | 2.50 |
| 6800 | 604D682F005HP2 | 22.23 x 66.68 | 0.052 | 0.039 | 3.20 |
| 10 000 | 604D103F005HS2 | 22.23 x 79.38 | 0.040 | 0.030 | 4.00 |
| 8200 | 604D822F005JL2 | 25.04 x 53.98 | 0.049 | 0.037 | 3.50 |
| 15 000 | 604D153F005JP2 | 25.04 x 66.68 | 0.035 | 0.026 | 4.60 |
| 18 000 | 604D183F005JS2 | 25.04 x 79.38 | 0.027 | 0.020 | 5.60 |
| 22 000 | 604D223F005JT2 | 25.04 x 92.08 | 0.022 | 0.017 | 7.00 |



| ELECTRICAL DATA AND ORDERING INFORMATION | | | | | |
|---|--------------------|---|--|--|---|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L (mm) | MAX. ESR AT 100 kHz/25 °C (Ω) | MAX. Z AT 100 kHz/25 °C (Ω) | MAX. RIPPLE CURRENT AT 100 kHz/85 °C (A) |
| 7.5 WV_{DC} AT + 85 °C, SURGE = 10 V | | | | | |
| 2200 | 604D222F7R5GJ2 | 19.05 x 41.28 | 0.175 | 0.130 | 1.40 |
| 3900 | 604D392F7R5GP2 | 19.05 x 66.68 | 0.093 | 0.070 | 2.40 |
| 5600 | 604D562F7R5GS2 | 19.05 x 79.38 | 0.070 | 0.053 | 3.00 |
| 3300 | 604D332F7R5HJ2 | 22.23 x 41.28 | 0.117 | 0.087 | 1.80 |
| 4700 | 604D472F7R5HL2 | 22.23 x 53.98 | 0.080 | 0.059 | 2.40 |
| 6200 | 604D622F7R5HP2 | 22.23 x 66.68 | 0.061 | 0.046 | 3.10 |
| 8200 | 604D822F7R5HS2 | 22.23 x 79.38 | 0.047 | 0.035 | 3.80 |
| 5600 | 604D562F7R5JJ2 | 25.04 x 41.28 | 0.073 | 0.055 | 2.40 |
| 6800 | 604D682F7R5JL2 | 25.04 x 53.98 | 0.057 | 0.043 | 3.30 |
| 12 000 | 604D123F7R5JP2 | 25.04 x 66.68 | 0.039 | 0.029 | 4.40 |
| 15 000 | 604D153F7R5JS2 | 25.04 x 79.38 | 0.032 | 0.024 | 5.30 |
| 18 000 | 604D183F7R5JT2 | 25.04 x 92.08 | 0.025 | 0.019 | 6.60 |
| 10 WV_{DC} AT + 85 °C, SURGE = 15 V | | | | | |
| 1800 | 604D182F010GJ2 | 19.05 x 41.28 | 0.195 | 0.144 | 1.30 |
| 2700 | 604D272F010GL2 | 19.05 x 53.98 | 0.144 | 0.107 | 1.70 |
| 3300 | 604D332F010GP2 | 19.05 x 66.68 | 0.110 | 0.082 | 2.20 |
| 4700 | 604D472F010GS2 | 19.05 x 79.38 | 0.081 | 0.060 | 2.80 |
| 2700 | 604D272F010HJ2 | 22.23 x 41.28 | 0.127 | 0.094 | 1.70 |
| 3900 | 604D392F010HL2 | 22.23 x 53.98 | 0.092 | 0.068 | 2.20 |
| 5600 | 604D562F010HP2 | 22.23 x 66.68 | 0.069 | 0.051 | 2.90 |
| 6800 | 604D682F010HS2 | 22.23 x 79.38 | 0.053 | 0.039 | 3.60 |
| 5600 | 604D562F010JL2 | 25.04 x 53.98 | 0.065 | 0.048 | 3.20 |
| 8200 | 604D822F010JP2 | 25.04 x 66.68 | 0.044 | 0.033 | 4.10 |
| 10 000 | 604D103F010JS2 | 25.04 x 79.38 | 0.034 | 0.025 | 5.00 |
| 15 000 | 604D153F010JT2 | 25.04 x 92.08 | 0.028 | 0.021 | 6.20 |
| 16 WV_{DC} AT + 85 °C, SURGE = 20 V | | | | | |
| 1500 | 604D152F016GJ2 | 19.05 x 41.28 | 0.207 | 0.149 | 1.20 |
| 2200 | 604D222F016GL2 | 19.05 x 53.98 | 0.153 | 0.110 | 1.60 |
| 3900 | 604D392F016GS2 | 19.05 x 79.38 | 0.085 | 0.061 | 2.60 |
| 2200 | 604D223F016HJ2 | 22.23 x 41.28 | 0.138 | 0.100 | 1.60 |
| 3300 | 604D332F016HL2 | 22.23 x 53.98 | 0.107 | 0.077 | 2.00 |
| 5600 | 604D562F016HS2 | 22.23 x 79.38 | 0.056 | 0.041 | 3.30 |
| 8200 | 604D822F016HT2 | 22.23 x 92.08 | 0.046 | 0.033 | 4.10 |
| 4700 | 604D472F016JL2 | 25.04 x 53.98 | 0.069 | 0.050 | 2.90 |
| 6800 | 604D682F016JP2 | 25.04 x 66.68 | 0.048 | 0.035 | 3.90 |
| 10 000 | 604D103F016JS2 | 25.04 x 79.38 | 0.036 | 0.026 | 4.70 |
| 20 WV_{DC} AT + 85 °C, SURGE = 25 V | | | | | |
| 1200 | 604D122F020GJ2 | 19.05 x 41.28 | 0.240 | 0.170 | 1.20 |
| 2200 | 604D222F020GP2 | 19.05 x 66.68 | 0.132 | 0.092 | 2.00 |
| 3300 | 604D332F020GS2 | 19.05 x 79.38 | 0.100 | 0.070 | 2.50 |
| 1800 | 604D182F020HJ2 | 22.23 x 41.28 | 0.160 | 0.110 | 1.50 |
| 2700 | 604D272F020HL2 | 22.23 x 53.98 | 0.120 | 0.084 | 1.90 |
| 3900 | 604D392F020HP2 | 22.23 x 66.68 | 0.085 | 0.060 | 2.60 |
| 5600 | 604D562F020HS2 | 22.23 x 79.38 | 0.064 | 0.045 | 3.80 |
| 4700 | 604D472F020JL2 | 25.04 x 53.98 | 0.078 | 0.055 | 2.70 |
| 6800 | 604D682F020JP2 | 25.04 x 66.68 | 0.055 | 0.039 | 3.50 |
| 8200 | 604D822F020JS2 | 25.04 x 79.38 | 0.042 | 0.030 | 4.50 |
| 10 000 | 604D103F020JT2 | 25.04 x 92.08 | 0.034 | 0.024 | 5.50 |



| ELECTRICAL DATA AND ORDERING INFORMATION | | | | | |
|--|--------------------|---|--|--|---|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L (mm) | MAX. ESR AT 100 kHz/25 °C (Ω) | MAX. Z AT 100 kHz/25 °C (Ω) | MAX. RIPPLE CURRENT AT 100 kHz/85 °C (A) |
| 25 WV_{DC} AT + 85 °C, SURGE = 30 V | | | | | |
| 1000 | 604D102F025GJ2 | 19.05 x 41.28 | 0.320 | 0.224 | 1.05 |
| 1200 | 604D122F025GL2 | 19.05 x 53.98 | 0.240 | 0.168 | 1.40 |
| 1800 | 604D182F025GP2 | 19.05 x 66.68 | 0.180 | 0.126 | 1.75 |
| 2200 | 604D222F025HL2 | 22.23 x 53.98 | 0.145 | 0.102 | 1.90 |
| 3300 | 604D332F025HP2 | 22.23 x 66.68 | 0.108 | 0.072 | 3.00 |
| 2700 | 604D272F025JL2 | 25.04 x 53.98 | 0.116 | 0.081 | 2.40 |
| 4700 | 604D472F025JP2 | 25.04 x 66.68 | 0.080 | 0.056 | 3.25 |
| 6800 | 604D682F025JS2 | 25.04 x 79.38 | 0.062 | 0.043 | 4.00 |
| 8200 | 604D822F025JT2 | 25.04 x 92.08 | 0.051 | 0.036 | 4.65 |
| 30 WV_{DC} AT + 85 °C, SURGE = 40 V | | | | | |
| 820 | 604D821F030GJ2 | 19.05 x 41.28 | 0.380 | 0.262 | 1.00 |
| 1000 | 604D102F030GL2 | 19.05 x 53.98 | 0.295 | 0.204 | 1.25 |
| 1500 | 604D152F030GP2 | 19.05 x 66.68 | 0.204 | 0.141 | 1.70 |
| 1800 | 604D182F030HL2 | 22.23 x 53.98 | 0.165 | 0.114 | 1.75 |
| 2700 | 604D272F030HP2 | 22.23 x 66.68 | 0.120 | 0.083 | 2.35 |
| 3900 | 604D392F030HS2 | 22.23 x 79.38 | 0.088 | 0.061 | 2.90 |
| 2200 | 604D222F030JL2 | 25.04 x 53.98 | 0.133 | 0.092 | 2.25 |
| 3300 | 604D332F030JP2 | 25.04 x 66.68 | 0.095 | 0.056 | 3.00 |
| 4700 | 604D472F030JS2 | 25.04 x 79.38 | 0.074 | 0.051 | 3.60 |
| 5600 | 604D562F030JT2 | 25.04 x 92.08 | 0.059 | 0.041 | 4.40 |
| 40 WV_{DC} AT + 85 °C, SURGE = 50 V | | | | | |
| 680 | 604D681F040GJ2 | 19.05 x 41.28 | 0.480 | 0.322 | 0.90 |
| 820 | 604D821F040GL2 | 19.05 x 53.98 | 0.380 | 0.255 | 1.15 |
| 1000 | 604D102F040HJ2 | 22.23 x 41.28 | 0.295 | 0.197 | 1.20 |
| 1500 | 604D152F040HL2 | 22.23 x 53.98 | 0.220 | 0.147 | 1.55 |
| 2200 | 604D222F040HP2 | 22.23 x 66.68 | 0.155 | 0.104 | 2.15 |
| 3300 | 604D332F040HS2 | 22.23 x 79.38 | 0.115 | 0.077 | 2.60 |
| 1800 | 604D182F040JL2 | 25.04 x 53.98 | 0.175 | 0.117 | 2.05 |
| 3900 | 604D392F040JS2 | 25.04 x 79.38 | 0.091 | 0.061 | 3.40 |
| 4700 | 604D472F040JT2 | 25.04 x 92.08 | 0.074 | 0.050 | 4.10 |
| 50 WV_{DC} AT + 85 °C, SURGE = 75 V | | | | | |
| 470 | 604D471F050GJ2 | 19.05 x 41.28 | 0.430 | 0.280 | 0.93 |
| 560 | 604D561F050GL2 | 19.05 x 53.98 | 0.325 | 0.212 | 1.15 |
| 680 | 604D681F050HJ2 | 22.23 x 41.28 | 0.245 | 0.160 | 1.25 |
| 820 | 604D821F050HL2 | 22.23 x 53.98 | 0.185 | 0.120 | 1.60 |
| 1200 | 604D122F050HP2 | 22.23 x 66.68 | 0.130 | 0.085 | 2.15 |
| 1000 | 604D102F050JL2 | 25.04 x 53.98 | 0.150 | 0.098 | 2.10 |
| 1500 | 604D152F050JP2 | 25.04 x 66.68 | 0.108 | 0.070 | 2.80 |
| 2200 | 604D222F050JS2 | 25.04 x 79.38 | 0.081 | 0.053 | 3.40 |
| 3300 | 604D332F050JT2 | 25.04 x 92.08 | 0.065 | 0.042 | 4.25 |



| ELECTRICAL DATA AND ORDERING INFORMATION | | | | | |
|--|--------------------|---|--|--|---|
| CAPACITANCE (μF) | PART NUMBER | NOMINAL CASE SIZE D x L (mm) | MAX. ESR AT 100 kHz/25 °C (Ω) | MAX. Z AT 100 kHz/25 °C (Ω) | MAX. RIPPLE CURRENT AT 100 kHz/85 °C (A) |
| 75 WV_{DC} AT + 85 °C, SURGE = 100 V | | | | | |
| 220 | 604D221F075GJ2 | 19.05 x 41.28 | 0.650 | 0.384 | 0.78 |
| 270 | 604D271F075GL2 | 19.05 x 53.98 | 0.500 | 0.295 | 1.00 |
| 390 | 604D391F075HJ2 | 22.23 x 41.28 | 0.370 | 0.218 | 1.10 |
| 560 | 604D561F075HL2 | 22.23 x 53.98 | 0.290 | 0.171 | 1.40 |
| 820 | 604D821F075HP2 | 22.23 x 66.68 | 0.200 | 0.118 | 1.95 |
| 1000 | 604D102F075HS2 | 22.23 x 79.38 | 0.153 | 0.090 | 2.25 |
| 680 | 604D681F075JL2 | 25.04 x 53.98 | 0.230 | 0.136 | 1.85 |
| 1500 | 604D152F075JS2 | 25.04 x 79.38 | 0.130 | 0.077 | 2.95 |
| 1800 | 604D182F075JT2 | 25.04 x 92.08 | 0.100 | 0.059 | 3.55 |
| 100 WV_{DC} AT + 85 °C, SURGE = 125 V | | | | | |
| 150 | 604D151F100GJ2 | 19.05 x 41.28 | 1.000 | 0.530 | 0.70 |
| 180 | 604D181F100GL2 | 19.05 x 53.98 | 0.765 | 0.405 | 0.90 |
| 270 | 604D271F100HJ2 | 22.23 x 41.28 | 0.565 | 0.300 | 0.93 |
| 390 | 604D391F100HL2 | 22.23 x 53.98 | 0.435 | 0.230 | 1.20 |
| 560 | 604D561F100HP2 | 22.23 x 66.68 | 0.300 | 0.159 | 1.60 |
| 470 | 604D471F100JL2 | 25.04 x 53.98 | 0.340 | 0.180 | 1.55 |
| 820 | 604D821F100JP2 | 25.04 x 66.68 | 0.235 | 0.125 | 2.10 |
| 1000 | 604D102F100JS2 | 25.04 x 79.38 | 0.185 | 0.098 | 2.65 |
| 1200 | 604D122F100JT2 | 25.04 x 92.08 | 0.150 | 0.080 | 3.15 |
| 200 WV_{DC} AT + 85 °C, SURGE = 250 V | | | | | |
| 47 | 604D470F200GJ2 | 19.05 x 41.28 | 2.600 | 0.780 | 0.60 |
| 82 | 604D820F200GJ2 | 19.05 x 41.28 | 1.530 | 0.460 | 0.75 |
| 120 | 604D121F200HL2 | 22.23 x 53.98 | 1.300 | 0.390 | 0.95 |
| 180 | 604D181F200HP2 | 22.23 x 66.68 | 0.865 | 0.259 | 1.25 |
| 270 | 604D271F200HT2 | 22.23 x 92.08 | 0.520 | 0.156 | 1.90 |
| 220 | 604D221F200JP2 | 25.04 x 66.68 | 0.650 | 0.195 | 1.67 |
| 390 | 604D391F200JT2 | 25.04 x 92.08 | 0.405 | 0.122 | 2.50 |



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- 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);
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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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