



CA501 High-Temp Wet Tantalum Capacitor

Glass seal, for 175 operation

Characteristics and Application

Silver case, glass sealed, Tubular, Axial leads, High temperature sleeve, Polar
Good electric performance, High reliability, long life, Low DF and LC.
High temperature performance, Can use at 175
Suit for down-hole-drilling instrumentation and high temperature electronic devices DC or pulse circuit.
Implementation of standards QJ/PWV223-2008



Technical Performance

Operation temperature: -55 ~+175 (>155 use derated Voltage)
Capacitance Tolerance:K= ±10% M=±20% Q=-10%~+30%
Dissipation Factor: 25 100Hz (see table 2)
leakage current
25 I 0.002CRUR μA or 2μA (whichever is greater)
85 I 0.01CRUR μA or 10μA (whichever is greater)
175 I 0.03 CRUR μA or 30μA (whichever is greater)

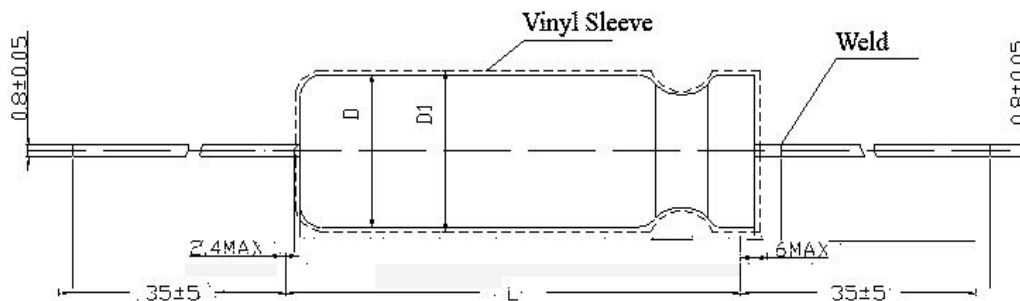


Table1 Case size and Maximum weight

| Case Code | Max. Weight g | Without Sleeve | | With Sleeve | |
|-----------|------------------|----------------|-----------|-------------|-------------|
| | | D±0.5 mm | L±2 mm | D1max mm | L max mm |
| 1 | 4 | 5 | 14 | 5.8 | 16 |
| 2 | 5 | 6 | 16 | 6.8 | 18 |
| 3 | 7 | 8 | 16 | 8.8 | 18 |
| 4 | 10 | 8 | 22 | 8.8 | 24 |
| 5 | 14 | 10 | 22 | 10.8 | 24 |
| 6 | 17 | 10 | 25 | 10.8 | 27 |
| 7 | 20 | 10 | 30 | 10.8 | 32 |



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Table2 Rated Voltage,derated voltage, capacitance, case code and dissipation factor

| Rated Voltage U _R (V) | Derated Voltage U _C (V) | Case Code | Cap. C _R (μF) | tg (%) 25 | Rated Voltage U _R (V) | Derated Voltage U _C (V) | Case Code | Cap. C _R (μF) | tg (%) 25 | | | | |
|-------------------------------------|---------------------------------------|-----------|-----------------------------|--------------|-------------------------------------|---------------------------------------|-----------|-----------------------------|--------------|----|---|-----|----|
| 6.3 | 3 | 1 | 22 | 45 | 25 | 13 | 2 | 47 | 30 | | | | |
| | | 1 | 33 | 45 | | | 2 | 68 | 30 | | | | |
| | | 1 | 47 | 45 | | | 2 | 100 | 40 | | | | |
| | | 1 | 68 | 45 | | | 3 | 150 | 45 | | | | |
| | | 2 | 100 | 50 | | | 4 | 220 | 60 | | | | |
| | | 2 | 150 | 50 | | | 4 | 330 | 60 | | | | |
| | | 3 | 220 | 70 | | | 5 | 470 | 65 | | | | |
| | | 3 | 330 | 75 | | | 6 | 680 | 70 | | | | |
| | | 4 | 470 | 95 | | | 1 | 4.7 | 15 | | | | |
| | | 4 | 680 | 95 | | | 1 | 6.8 | 20 | | | | |
| | | 5 | 1000 | 100 | | | 1 | 10 | 20 | | | | |
| | | 5 | 1200 | 120 | | | 1 | 15 | 25 | | | | |
| | | 10 | 5 | 1 | | | 15 | 40 | 40 | 20 | 1 | 22 | 30 |
| | | | | 1 | | | 22 | 40 | | | 2 | 33 | 30 |
| 1 | 33 | | | 40 | 2 | 47 | 35 | | | | | | |
| 1 | 47 | | | 45 | 2 | 68 | 30 | | | | | | |
| 1 | 68 | | | 45 | 3 | 100 | 45 | | | | | | |
| 2 | 100 | | | 50 | 4 | 150 | 45 | | | | | | |
| 2 | 150 | | | 60 | 5 | 220 | 45 | | | | | | |
| 3 | 220 | | | 65 | 5 | 330 | 50 | | | | | | |
| 3 | 330 | | | 80 | 6 | 470 | 60 | | | | | | |
| 4 | 470 | | | 85 | 7 | 680 | 80 | | | | | | |
| 4 | 680 | | | 85 | 1 | 3.3 | 10 | | | | | | |
| 16 | 8 | 1 | 4.7 | 20 | 50 | 25 | 1 | 4.7 | 15 | | | | |
| | | 1 | 10 | 30 | | | 1 | 6.8 | 15 | | | | |
| | | 1 | 15 | 30 | | | 1 | 10 | 15 | | | | |
| | | 1 | 22 | 35 | | | 2 | 15 | 15 | | | | |
| | | 1 | 33 | 35 | | | 2 | 22 | 20 | | | | |
| | | 1 | 47 | 40 | | | 2 | 25 | 20 | | | | |
| | | 2 | 68 | 40 | | | 2 | 33 | 25 | | | | |
| | | 2 | 100 | 45 | | | 2 | 39 | 25 | | | | |
| | | 3 | 150 | 45 | | | 3 | 47 | 25 | | | | |
| | | 3 | 220 | 70 | | | 4 | 68 | 35 | | | | |
| | | 4 | 330 | 80 | | | 4 | 100 | 35 | | | | |
| | | 4 | 470 | 85 | | | 5 | 150 | 30 | | | | |
| | | 5 | 680 | 90 | | | 6 | 220 | 35 | | | | |
| | | 25 | 13 | 1 | | | 4.7 | 20 | | | 6 | 330 | 40 |
| 1 | 6.8 | | | 20 | 7 | 560 | 50 | | | | | | |
| 1 | 10 | | | 20 | | | | | | | | | |
| 1 | 15 | | | 20 | | | | | | | | | |
| 1 | 22 | | | 25 | | | | | | | | | |
| 1 | 33 | | | 25 | | | | | | | | | |



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