

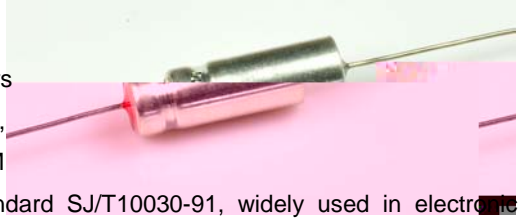


# CA30M Wet Tantalum Capacitor

(glass-sealed)

## 1, Brief Introduction

CA30M Series is half-sealed tubular wet tantalum electrolytic capacitors. With polar axial leads are characterized in small size, low DC Leakage, stable and excellent performances, high reliability and long life. CA30M Series meets the requirements of Chinese Electronic industry standard SJ/T10030-91, widely used in electronic equipment for military and civil applications such as telecommunication, aerospace and aviation.



## 2, General Characteristics

Operating Temperature Range: -55°C ~ +125°C (>85°C, use derated voltage)

Capacitance Tolerance: M=±20%, K=±10%

DC Leakage: at +20°C, I<sub>0</sub> 0.001C<sub>R</sub>U<sub>R</sub> or 1 A (Which is greater);

At +85°C and +125°C, I<sub>0</sub> 0.008C<sub>R</sub>U<sub>R</sub> or 8 A (Which is greater)

## 3, Drawing , Case Dimension and Max. weight:



Outline and Dimensions

Table 1

| Code | Max. weight (g) | D±0.5 (mm) | L±2 (mm) |
|------|-----------------|------------|----------|
| 0    | 3               | 5          | 10       |
| 1    | 4               | 5          | 14       |
| 2    | 5               | 6          | 16       |
| 3    | 7               | 8          | 16       |
| 4    | 10              | 8          | 22       |
| 5    | 14              | 10         | 22       |
| 6    | 17              | 10         | 25       |
| 7    | 20              | 10         | 30       |
| 8    | 23              | 10         | 33       |



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## 4, General Characteristics table 2

| Rated Voltage | Voltage Derating | Case size | Capacitance ( F ) | DF(%)Max<br>25°C,85°C,125°C | Impedance ( )<br>-55°C 100HZ |
|---------------|------------------|-----------|-------------------|-----------------------------|------------------------------|
| 6.3           | 4                | 0         | 1.0               | 6                           | 1800                         |
|               |                  | 0         | 1.5               | 6                           | 1400                         |
|               |                  | 0         | 2.2               | 6                           | 1100                         |
|               |                  | 0         | 3.3               | 6                           | 700                          |
|               |                  | 0         | 4.7               | 6                           | 500                          |
|               |                  | 0         | 6.8               | 8                           | 350                          |
|               |                  | 0         | 10                | 8                           | 260                          |
|               |                  | 0         | 15                | 10                          | 200                          |
|               |                  | 0         | 22                | 10                          | 180                          |
|               |                  | 0         | 33                | 12                          | 125                          |
|               |                  | 0         | 47                | 15                          | 125                          |
|               |                  | 0         | 68                | 18                          | 125                          |
|               |                  | 0         | 100               | 20                          | 100                          |
|               |                  | 1         | 150               | 30                          | 80                           |
|               |                  | 1         | 220               | 40                          | 70                           |
|               |                  | 2         | 330               | 40                          | 60                           |
|               |                  | 2         | 470               | 50                          | 50                           |
|               |                  | 3         | 680               | 50                          | 35                           |
|               |                  | 3         | 1000              | 60                          | 25                           |
|               |                  | 4         | 1200              | 60                          | 25                           |
| 4             | 1500             | 60        | 20                |                             |                              |
| 5             | 2200             | 70        | 20                |                             |                              |
| 6             | 3300             | 80        | 15                |                             |                              |
| 10            | 6.3              | 0         | 1.0               | 6                           | 1800                         |
|               |                  | 0         | 1.5               | 6                           | 1400                         |
|               |                  | 0         | 2.2               | 6                           | 1100                         |
|               |                  | 0         | 3.3               | 6                           | 700                          |
|               |                  | 0         | 4.7               | 6                           | 500                          |
|               |                  | 0         | 6.8               | 8                           | 350                          |
|               |                  | 0         | 10                | 8                           | 250                          |
|               |                  | 0         | 15                | 10                          | 200                          |
|               |                  | 0         | 22                | 10                          | 175                          |
|               |                  | 0         | 33                | 12                          | 125                          |
|               |                  | 0         | 47                | 15                          | 100                          |
|               |                  | 0         | 68                | 18                          | 80                           |
|               |                  | 0         | 100               | 20                          | 60                           |
|               |                  | 1         | 150               | 30                          | 55                           |
|               |                  | 2         | 220               | 40                          | 45                           |
|               |                  | 2         | 330               | 45                          | 40                           |



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| Rated Voltage | Voltage Derating | Case size | Capacitance ( F ) | DF(%)Max<br>25°C,85°C,125°C | Impedance ( )<br>-55°C 100HZ |
|---------------|------------------|-----------|-------------------|-----------------------------|------------------------------|
| 10            | 6.3              | 3         | 470               | 50                          | 35                           |
|               |                  | 3         | 680               | 50                          | 30                           |
|               |                  | 4         | 1000              | 50                          | 25                           |
|               |                  | 4         | 1200              | 60                          | 25                           |
|               |                  | 5         | 1500              | 60                          | 20                           |
|               |                  | 6         | 2200              | 70                          | 20                           |
|               |                  | 0         | 1.0               | 6                           | 1800                         |
|               |                  | 0         | 1.5               | 6                           | 1400                         |

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| Rated Voltage | Voltage Derating | Case size | Capacitance ( F) | DF(%)Max<br>25°C,85°C,125°C | Impedance ( )<br>-55°C 100HZ |
|---------------|------------------|-----------|------------------|-----------------------------|------------------------------|
| 25            | 16               | 3         | 150              | 25                          | 60                           |
|               |                  | 3         | 220              | 30                          | 55                           |
|               |                  | 4         | 330              | 30                          | 45                           |
|               |                  | 5         | 470              | 40                          | 40                           |
|               |                  | 6         | 680              | 40                          | 35                           |
|               |                  | 7         | 1000             | 40                          | 30                           |
|               |                  | 7         | 1200             | 50                          | 25                           |
|               |                  | 8         | 1500             | 60                          | 20                           |
| 40            | 25               | 0         | 1.0              | 6                           | 1800                         |
|               |                  | 0         | 1.5              | 6                           | 1400                         |
|               |                  | 0         | 2.2              | 6                           | 1100                         |
|               |                  | 0         | 3.3              | 6                           | 700                          |
|               |                  | 0         | 4.7              | 6                           | 450                          |
|               |                  | 0         | 6.8              | 8                           | 350                          |
|               |                  | 0         | 10               | 8                           | 260                          |
|               |                  | 0         | 15               | 10                          | 175                          |
|               |                  | 0         | 22               | 12                          | 140                          |
|               |                  | 1         | 33               | 12                          | 110                          |
|               |                  | 2         | 47               | 15                          | 80                           |
|               |                  | 2         | 68               | 15                          | 75                           |
|               |                  | 2         | 100              | 20                          | 65                           |
|               |                  | 3         | 150              | 20                          | 50                           |
|               |                  | 4         | 220              | 25                          | 45                           |
|               |                  | 5         | 330              | 25                          | 35                           |
|               |                  | 5         | 470              | 30                          | 35                           |
|               |                  | 6         | 560              | 40                          | 35                           |
|               |                  | 6         | 680              | 40                          | 30                           |
|               |                  | 7         | 1000             | 45                          | 30                           |
| 8             | 1200             | 50        | 25               |                             |                              |
| 50            | 30               | 0         | 1.0              | 6                           | 1800                         |
|               |                  | 0         | 1.5              | 6                           | 1400                         |
|               |                  | 0         | 2.2              | 6                           | 1100                         |
|               |                  | 0         | 3.3              | 6                           | 700                          |
|               |                  | 0         | 4.7              | 6                           | 500                          |
|               |                  | 0         | 6.8              | 8                           | 350                          |
|               |                  | 0         | 10               | 8                           | 260                          |
|               |                  | 0         | 15               | 10                          | 175                          |
|               |                  | 1         | 22               | 12                          | 150                          |
|               |                  | 2         | 33               | 12                          | 110                          |
|               |                  | 2         | 47               | 15                          | 80                           |



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| Rated Voltage | Voltage Derating | Case size | Capacitance ( F) | DF(%)Max<br>25°C,85°C,125°C | Impedance ( )<br>-55°C 100HZ |
|---------------|------------------|-----------|------------------|-----------------------------|------------------------------|
| 50            | 30               | 3         | 68               | 15                          | 75                           |
|               |                  | 3         | 100              | 20                          | 65                           |
|               |                  | 4         | 150              | 20                          | 50                           |
|               |                  | 4         | 220              | 25                          | 45                           |
|               |                  | 5         | 330              | 25                          | 45                           |
|               |                  | 6         | 470              | 35                          | 35                           |
|               |                  | 7         | 680              | 40                          | 30                           |
|               |                  | 8         | 1000             | 50                          | 30                           |
| 63            | 40               | 0         | 1.0              | 6                           | 1800                         |
|               |                  | 0         | 1.5              | 6                           | 1400                         |
|               |                  | 0         | 2.2              | 6                           | 1100                         |
|               |                  | 0         | 3.3              | 6                           | 700                          |
|               |                  | 0         | 4.7              | 6                           | 500                          |
|               |                  | 0         | 6.8              | 8                           | 350                          |
|               |                  | 0         | 10               | 8                           | 260                          |
|               |                  | 1         | 15               | 10                          | 175                          |
|               |                  | 2         | 22               | 12                          | 140                          |
|               |                  | 2         | 33               | 12                          | 100                          |
|               |                  | 2         | 47               | 15                          | 80                           |
|               |                  | 3         | 68               | 15                          | 65                           |
|               |                  | 3         | 100              | 20                          | 60                           |
|               |                  | 4         | 150              | 20                          | 50                           |
|               |                  | 5         | 220              | 25                          | 45                           |
|               |                  | 6         | 330              | 25                          | 35                           |
|               |                  | 7         | 470              | 40                          | 30                           |



Rated  
Voltage

Voltage  
Derating

Case size

Capacitance  
( F )

DF(%)Max  
25°C, 85°C, 125°C



5, How to order  
(Part No. GTCA30M105M0160)

|    |     |     |   |     |   |
|----|-----|-----|---|-----|---|
| GT | 30M | 105 | M | 016 | 0 |
|----|-----|-----|---|-----|---|

**Notes:**

- 1、Tantalum capacitors can't been measured by multimeter (Easy to cause irreversible damage and lead to reject)
- 2、Capacitance, DF measure frequency: 100Hz,  $U=2.2^{0.1}V$ ,  $U_L=10\%$  (value)
- 3、Measure leakage current above 85°C, please use derated voltage.
- 4、Special size and big capacitance products, please negotiate with us