

## CBGD High-Temp Wet Tantalum Capacitor

All Tantalum Case, for  $-55^{\circ}\text{C} \sim +200^{\circ}\text{C}$  operation (hermetic seal)



### 1. Brief Introduction and Feature

- ◆ CBGD(Equative CA58B), All tantalum case ,hermetic sealed, with high-temp insulation sleeve wet tantalum electrolytic capacitors.
- ◆ With polar, axial leads through hole.High reliability,long life,high ripple current.
- ◆ Widely used in electronic equipment for high-temp applications such as oil down hole drilling,and other DC or PC.
- ◆ Meet standard: QJ/PWV344-2011                      Cross Vishay part 134D

### 2. General Characteristics

- ◆ Operating Temperature:  $-55^{\circ}\text{C} \sim +200^{\circ}\text{C}$  ( $>85^{\circ}\text{C}$  with voltage derating);
- ◆ Storage temperature:  $-62^{\circ}\text{C} \sim +130^{\circ}\text{C}$
- ◆ Capacitance Tolerance: K= $\pm 10\%$ , M= $\pm 20\%$
- ◆ Case sizes, Dimensions and Max. weight: As shown in Table 1 and figure 1.
- ◆ Performance: See table 2

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

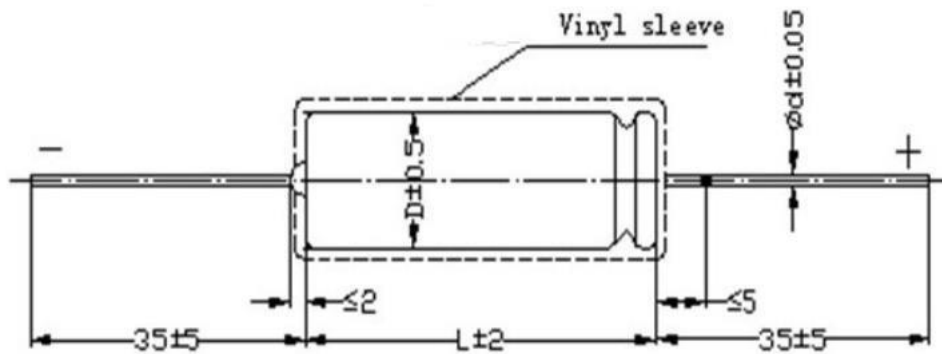


Table 1

| Code | Max. weight (g) | Without sleeve   |                  | With sleeve      |                  |
|------|-----------------|------------------|------------------|------------------|------------------|
|      |                 | D $\pm 0.4$ (mm) | L $\pm 0.8$ (mm) | D $\pm 0.4$ (mm) | L $\pm 0.8$ (mm) |
| T1   | 3               | 4.78             | 11.51            | 5.56             | 12.30            |
| T2   | 7               | 7.14             | 16.28            | 7.92             | 17.10            |
| T3   | 12              | 9.52             | 19.46            | 10.31            | 20.20            |
| T4   | 18              | 9.52             | 26.97            | 10.31            | 27.70            |

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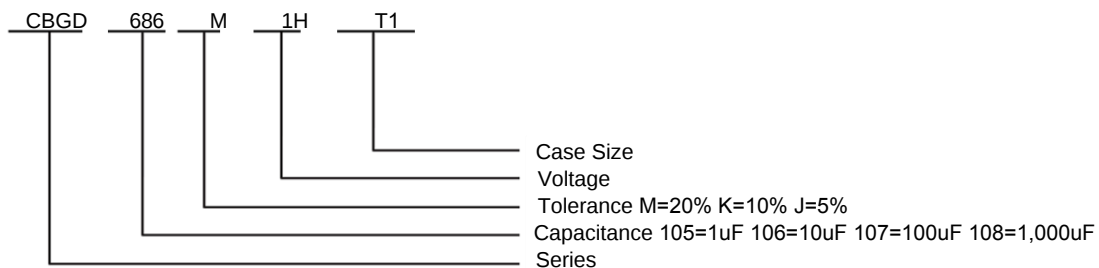
All Tantalum Case, for -55℃~+200℃ operation (hermetic seal)



### 4, General Characteristics

| Rated Voltage | Voltage Derating |      | Case size | Capacitance (μF) | DCL (μA)Max |             | Tgδ (%)<br>25℃ | AC ripple<br>85℃ 40kHz<br>Max (μA) |
|---------------|------------------|------|-----------|------------------|-------------|-------------|----------------|------------------------------------|
|               | 125℃             | 200℃ |           |                  | 25℃         | 85℃<br>125℃ |                |                                    |
| 50 1H         | 30               | 30   | T1        | 68               | 1           | 5           | 22             | 1400                               |
|               |                  |      | T2        | 220              | 2           | 10          | 28             | 2300                               |
|               |                  |      | T3        | 470              | 3           | 25          | 30             | 2650                               |
|               |                  |      | T4        | 680              | 5           | 40          | 38             | 2900                               |
| 60 1I         | 40               | 36   | T1        | 47               | 1           | 5           | 20             | 1250                               |
|               |                  |      | T2        | 150              | 2           | 10          | 23             | 2050                               |
|               |                  |      | T3        | 390              | 3           | 25          | 25             | 2450                               |
|               |                  |      | T4        | 560              | 5           | 40          | 35             | 2700                               |
| 75 1M         | 50               | 45   | T1        | 33               | 1           | 5           | 20             | 1100                               |
|               |                  |      | T2        | 110              | 2           | 10          | 25             | 1900                               |
|               |                  |      | T3        | 330              | 3           | 30          | 30             | 2300                               |
|               |                  |      | T4        | 470              | 5           | 50          | 40             | 2550                               |
| 100 2A        | 65               | 60   | T1        | 15               | 1           | 5           | 15             | 950                                |
|               |                  |      | T2        | 68               | 2           | 10          | 20             | 1500                               |
|               |                  |      | T3        | 150              | 3           | 25          | 25             | 1800                               |
|               |                  |      | T4        | 220              | 5           | 50          | 25             | 2200                               |
|               |                  |      | T4        | 400              | 15          | 120         | 100            | 3250                               |
| 125 2Q        | 85               | 75   | T1        | 10               | 1           | 5           | 10             | 750                                |
|               |                  |      | T2        | 47               | 2           | 10          | 15             | 1450                               |
|               |                  |      | T2        | 50               | 3           | 10          | 15             | 1450                               |
|               |                  |      | T3        | 100              | 3           | 25          | 20             | 1700                               |
|               |                  |      | T4        | 150              | 5           | 50          | 20             | 1900                               |

### PART NUMBER EXAMPLE



### Notes:

- 1、Tantalum capacitors can't been measured by multimeter (Easily cause irreversible damage and lead to reject)
- 2、Capacitance, DF measure frequency: 100Hz, U=2.20 -1.0V, U =1.00 -0.5V(effective value), measure method is by series equivalent circuit.
- 3、Measure leakage current above 125℃, please use derated voltage. DLC read within 5 minute.
- 4、Special size and big capacitance products, please negotiate with us