

# CA53

200°C Hermetic seal Non-solid Tantalum Capacitor axial

**FEATURES:**

## High Temperature Series

Alternative for 134D Series of VISHAY brand High temperature axial wet tantalum capacitor.

- Silver case mount, Hermetic seal ,Cylinder shape;
- Axial lead , with high temperature insulation sleeve , polarized ;
- high performace of electrical, high reliability , long life , small dissipation factor and leakage current
- small size , high temperature performance ;
- can work in high temperature of 200°C.

**APPLICATIONS:**

used for DC or pulse circuit of the high temperature electronic measurement equipment for deep oil wells etc.

**MAIN PERFORMANCE CHARACTERISTICS:**

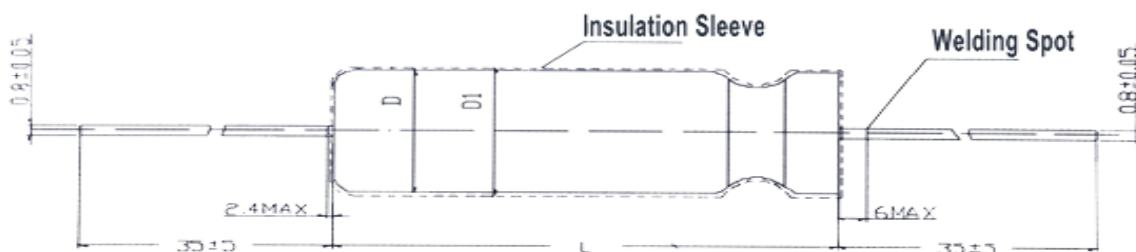
**operating Temperature:** -55°C ~ +200°C ( >85°C, with category Voltage )

**Capacitance tolerance :** ±10%; ± 20%; -10%~+30% ;

**Dissipation factor at 25°C,100Hz (see below table ) ,**

**Leak current :** 25°C  $I \leq 0.001 C_R U_R (\mu A)$  or 1  $\mu A$  (whichever is greater )

85°C  $I \leq 0.008 C_R U_R (\mu A)$  or 8  $\mu A$  (whichever is greater )



| case code | Max Weight (g) | without Insulation sleeve |          | with insulation sleeve |            |
|-----------|----------------|---------------------------|----------|------------------------|------------|
|           |                | D±0.5 (mm)                | L±2 (mm) | D <sub>1max</sub> (mm) | L max (mm) |
| 1         | 4              | 6                         | 15       | 6.8                    | 16         |
| 2         | 5              | 8                         | 17       | 8.8                    | 18         |
| 3         | 7              | 8                         | 22       | 8.8                    | 18         |
| 4         | 10             | 10                        | 22       | 10.8                   | 24         |
| 5         | 14             | 10                        | 25       | 10.8                   | 27         |
| 6         | 17             | 10                        | 30       | 10.8                   | 32         |

## STANDARD RATINGS:

| Rated voltage<br>$U_R(V)$<br>25°C,85°C | category voltage<br>$U_c(V)$ |       | Capacitance<br>CR( $\mu F$ ) | Case code | Dissipation Factor<br>( $tg\delta$ )%<br>25°C, |
|--|------------------------------|-------|------------------------------|-----------|--|
|  | 125°C                        | 200°C |                              |           |  |
| 50v                                    | 30V                          | 30V   | 68 $\mu F$                   | 1         | 25   |
|  |                              |       | 220 $\mu F$                  | 2         | 28   |
|  |                              |       | 470 $\mu F$                  | 4         | 30   |
|  |                              |       | 680 $\mu F$                  | 6         | 35   |
| 60v                                    | 40V                          | 36V   | 47 $\mu F$                   | 1         | 25   |
|  |                              |       | 150 $\mu F$                  | 2         | 28   |
|  |                              |       | 390 $\mu F$                  | 4         | 30   |
|  |                              |       | 560 $\mu F$                  | 6         | 35   |
| 75v                                    | 50V                          | 45V   | 33 $\mu F$                   | 1         | 12   |
|  |                              |       | 110 $\mu F$                  | 2         | 25   |
|  |                              |       | 330 $\mu F$                  | 5         | 30   |
|  |                              |       | 470 $\mu F$                  | 6         | 30   |
| 100v                                   | 65V                          | 65V   | 15 $\mu F$                   | 1         | 15   |
|  |                              |       | 68 $\mu F$                   | 3         | 25   |
|  |                              |       | 150 $\mu F$                  | 5         | 28   |
|  |                              |       | 220 $\mu F$                  | 6         | 28   |
| 125v                                   | 85V                          | 85V   | 10 $\mu F$                   | 1         | 13   |
|  |                              |       | 47 $\mu F$                   | 3         | 20   |
|  |                              |       | 50 $\mu F$                   | 3         | 20   |
|  |                              |       | 100 $\mu F$                  | 5         | 25   |
|  |                              |       | 150 $\mu F$                  | 6         | 28   |

### Note:

1. Please Don't use multimeter to test the tantalum capacitor
2. the test for capacitor's capacitance , dissipation Factor(  $tg\delta$ ) is 100Hz, direct-current bias voltage  $U_{-}=2.2^{0}_{-1.0}V$ , AC bias Voltage  $U_{\sim}=1.0^{0}_{-0.5}V$
3. please use category voltage when test the leakage current, at the temperature larger than 85°C.
4. please contact us for the large capacitance capacitor which didn't show in table or special capacitance capacitor for design and production.