

**CAK39H Military Standard Wet Tantalum Capacitor**

(All tantalum case, high reliability, hermetic seal)

1, Brief Introduction and Feature

- 1) CAK39H, All tantalum case, hermetic sealed, with insulation sleeve wet tantalum electrolytic capacitors.
- 2) With polar, axial leads through hole, in stable and excellent performances.
- 3) High reliability, long life, high ripple current, low ESR and low DCL.
- 4) Widely used in electronic equipment for military applications such as telecommunication, aerospace and aviation.



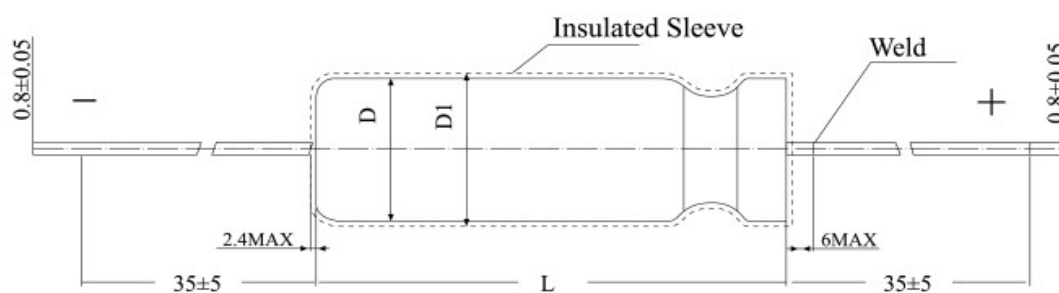
Meet standard: GJB733A-96, QJ/PWV319-2010

2, General CharacteristicsOperating Temperature Range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ ($>125^{\circ}\text{C}$ with voltage derating);Capacitance range: $10\mu\text{F} \sim 2200\mu\text{F}$ Capacitance Tolerance: $K=\pm 10\%$, $M=\pm 20\%$ Voltage: $15\text{V} \sim 125\text{V}$ Reverse voltage capability: 1.5V Impedance at -55°C : please see Table 2

DCL see table 2

Case sizes, Dimensions and Max. weight: As shown in Table 1 and figure 1.

Nominal Capacitance, Rated voltage, Voltage Derating: See table 2

3, Drawing, Case Dimension and Max. weight

Outline and Dimensions

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	5.58	14.31
T2	7	7.14	16.28	7.94	19.08
T3	12	9.52	19.46	10.32	22.26
T4	18	9.52	26.97	10.32	29.77



4, General Characteristics

Table 2

Rated Voltage Voltage (V)	Voltage Derating (V)	Case size	Capacitance (μF)	DCL (μA)Max		IMP (Ω) -55℃ 100Hz	Capacitance change Max (%)			ESR (Ω) 100Hz 25℃	AC ripple 85℃ 40kHz (mA)
				25℃	85℃ 125℃		25℃	85℃	125℃		
15	10	T1	150	2	12	30	-55	+30	+40	1.4	1400
		T2	680	6	36	13	-70	+30	+50	1.1	2200
		T3	1500	12	70	12	-80	+40	+60	0.9	2700
		T4	2200	20	120	7	-85	+40	+60	0.7	3400
25	15	T1	120	1	5	25	-42	+16	+24	1.3	1250
		T2	560	2	10	12	-65	+24	+30	1.0	2100
		T3	1200	5	20	7	-70	+24	+36	0.8	2600
		T4	1800	6	25	7	-72	+24	+40	0.5	3100
30	20	T1	100	1	5	30	-38	+16	+24	1.6	1200
		T2	470	2	10	18	-65	+20	+36	1.1	1800
		T3	100	7	25	12	-70	+20	+36	1.0	2500
		T4	1500	12	35	8	-72	+20	+40	0.9	3000
50	30	T1	68	1	5	35	-25	+12	+30	1.8	1050
		T2	220	2	10	18	-50	+12	+30	1.2	1800
		T3	470	3	25	14	-45	+12	+30	1.1	2100
		T4	680	5	40	9	-58	+20	+40	1.0	2750
60	40	T1	47	1	5	45	-25	+10	+24	2.3	1050
		T2	150	2	10	21	-40	+10	+24	1.4	1800
		T3	390	3	25	15	-45	+10	+26	1.2	2100
		T4	560	5	40	11	-58	+10	+24	1.1	2750
75	50	T1	33	1	5	55	-25	+9	+18	2.8	1050
		T2	110	2	10	35	-35	+10	+20	1.6	1650
		T3	330	3	30	21	-45	+10	+20	1.3	2100
		T4	470	5	50	13	-50	+10	+20	1.2	2750
100	65	T1	15	1	5	120	-18	+3	+10	4.0	1050
		T2	68	2	10	40	-30	+4	+12	2.4	1650
		T3	150	3	25	28	-35	+6	+12	1.9	2100
		T4	220	5	50	21	-40	+6	+12	1.5	2750
125	85	T1	10	1	5	180	-15	+3	+10	6.0	1050
		T2	47	2	10	55	-25	+5	+12	2.8	1650
		T3	100	3	25	55	-35	+5	+12	2.1	2100
		T4	150	5	50	21	-35	+6	+12	1.9	2750

**5,How to order**

(GTCAK39H-227K050T2)

GT	CAK39H	227	K	050	T2
Brand Name	Type	Capacitance	Tolerance	DC voltage	Size code
Green Tech	Military Wet Electrolytic Tantalum Capacitor	227: 22×10^7 (pF) This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	K=±10% M=±20%	15V=015 25V=025 30V=030 50V=050 60V=060 100V=100 125V=125	T1 T2 T3 T4

Notes:

- 1, Tantalum capacitors can't been measured by multimeter (Easily cause irreversible damage and lead to reject)
- 2, Capacitance, DF measure frequency: 100Hz, DC offset voltage $U_1 = 2.2^{+0}_{-1.0}$ V, Exchange offset voltage $U_2 = 1.0^{+0}_{-0.5}$ V (effective value), measure method is by series equivalent circuit.
- 3, Measure the leakage current above 125℃, please use derated voltage. DLC read within 5 minute.
- 4, Special size and big capacitance products, please negotiate with us