



CHIP TYPE TANTALUM SOLID ELECTROLYTIC CAPACITORS

Upgrade!

NP CAP™ -PT Series

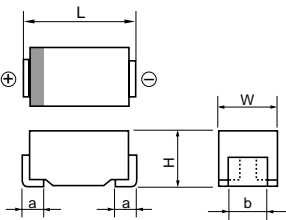
- Low ESR (1/2~1/3 compared with Mangan type Tantalum capacitors)
- Suitable for DC-DC converters, voltage regulators and decoupling applications
- Heat resistance to reflow soldering :
Peak temperature 250°C, 230°C 40seconds
- Pb-free type



◆ SPECIFICATIONS

Items	Characteristics			
Category	-55°C to +105°C			
Temperature Range	-55°C to +105°C			
Rated Voltage Range	2.5 to 10V _{dc}			
Capacitance Range	10 to 680μF (at 20°C, 120Hz)			
Leakage Current	I=0.1CV (max.) Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V _{dc}) (at 20°C after 5 minutes)			
Dissipation Factor (tanδ)	0.08 max. (10V : 0.10 max.) (at 20°C, 120Hz)			
Temperature Characteristics	Temperature	-55°C	+85°C	+105°C
	Capacitance Change	-15 to 0%	0 to +20%	0 to +30%
	DF (tanδ)	≤The initial specified value	≤150% of the initial specified value	≤150% of the initial specified value
	Leakage current	—	1.0CV or less	1.0CV or less
Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C 90 to 95%RH for 500 hours.			
	Capacitance change	-20% to +30%		
	DF (tanδ)	≤150% of the initial specified value		
	Leakage current	≤300% of the initial specified value		
Surge Voltage	The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltage specified at 85°C for 30 seconds through a protective resistance(R=33Ω) and discharge for 5 minutes 30 seconds.			
	Capacitance change	≤±20% of the initial value		
	DF (tanδ)	≤The initial specified value		
	Leakage current	≤The initial specified value		
Resistance of soldering heat	Reflow condition : Peak temperature 250°CMax. 230°C within 40 seconds.			
	Capacitance change	≤±10% of the initial value		
	DF (tanδ)	≤200% of the initial specified value		
	Leakage current	≤300% of the initial specified value		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage (10V : 8V _{dc}) is applied for 1000 hours at 105°C.			
	Capacitance change	≤±20% of the initial value		
	DF (tanδ)	≤150% of the initial specified value		
	Leakage current	≤The initial specified value		

◆ DIMENSIONS [mm]



Case Code	L	W	H	a	b
P	2.0±0.2	1.25±0.2	1.2 Max.	0.5±0.2	0.9±0.2
A	2.2±0.2	1.6 ±0.2	1.6±0.2	0.8±0.2	1.2±0.2
B2	3.5±0.2	2.8 ±0.2	1.9±0.1	0.8±0.2	2.2±0.2
D4	7.3±0.2	4.3 ±0.2	1.9±0.1	1.3±0.2	2.4±0.2
D6	7.3±0.2	4.3 ±0.2	2.8±0.2	1.3±0.2	2.4±0.2
D8	7.3±0.2	4.3 ±0.2	3.8±0.2	1.3±0.2	2.4±0.2

◆ PART NUMBERING SYSTEM

