

PT Chip Type Series

- Case diameter: $\Phi 4\text{mm} \sim \Phi 10\text{mm}$
- Reflow soldering is available
- Available for high density surface mounting
- Operating over wide temperature range($-40^\circ\text{C} \sim +105^\circ\text{C}$)

■ Specifications

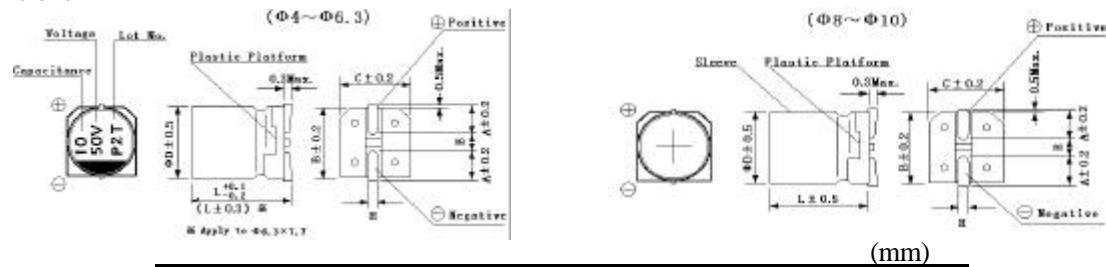
Item	Characteristics													
Operating Temperature Range	$-40^\circ\text{C} \sim +105^\circ\text{C}$													
Rated Voltage Range	4V ~ 50V													
Nominal Capacitance Range	$0.1\text{nF} \sim 1000\text{nF}$													
Capacitance Tolerance	M ($\pm 20\%$) $(20^\circ\text{C}, 120\text{Hz})$													
Leakage Current	$I \leq 0.01C_R U_R$ or $3(\text{nA})$, whichever is greater. C_R : Nominal capacitance (nF) U_R : Rated voltage(V) $(20^\circ\text{C}, \text{after 2 minutes})$													
Dissipation Factor (Max)	$U_R(\text{V})$	4	6.3	10	16	25	35	50						
	$\tan \delta$	0.35	0.26	0.20	0.16	0.14	0.12	0.12						
	$(20^\circ\text{C}, 120\text{Hz})$													
Low Temperature Stability (Impedance Ratio)	$U_R(\text{V})$	4	6.3	10	16	25	35	50						
	$Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$	7	4	3	2	2	2	2						
	$Z(-40^\circ\text{C})/Z(+20^\circ\text{C})$	15	8	6	4	4	3	3						
	(120Hz)													
Load Life	After 1000 hours' application of rated voltage at 105°C , the capacitor shall meet the following requirement: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Capacitance change</td> <td style="padding: 2px;">Within $\pm 20\%$ of the initial value ($\leq 16\text{V}$: Within $\pm 25\%$ of the initial value)</td> </tr> <tr> <td style="padding: 2px;">Dissipation factor</td> <td style="padding: 2px;">Not more than 200% of the initial specified value.</td> </tr> <tr> <td style="padding: 2px;">Leakage current</td> <td style="padding: 2px;">Not more than the initial specified value.</td> </tr> </table>								Capacitance change	Within $\pm 20\%$ of the initial value ($\leq 16\text{V}$: Within $\pm 25\%$ of the initial value)	Dissipation factor	Not more than 200% of the initial specified value.	Leakage current	Not more than the initial specified value.
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Leakage current	Not more than the initial specified value.													
Shelf Life	After storage for 1000 hours at $+105^\circ\text{C}$, the capacitors shall meet the requirement of load life above.													
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, the meet the following requirement: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Capacitance Change</td> <td style="padding: 2px;">Within $\pm 10\%$ of the initial value.</td> </tr> <tr> <td style="padding: 2px;">Dissipation Factor</td> <td style="padding: 2px;">Not more than the initial specified value.</td> </tr> <tr> <td style="padding: 2px;">Leakage Current</td> <td style="padding: 2px;">Not more than the initial specified value.</td> </tr> </table>								Capacitance Change	Within $\pm 10\%$ of the initial value.	Dissipation Factor	Not more than the initial specified value.	Leakage Current	Not more than the initial specified value.
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Rated Ripple Current & Frequency Multipliers	Frequency	50Hz	120Hz	300Hz	1kHz	$\geq 10\text{kHz}$								
	Multiplier	0.70	1.00	1.17	1.36	1.50								

Aluminum Electrolytic Capacitors

Dindecon

PT Chip Type Series

■ Dimensions



	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×10	10×10
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.4	5.4	5.4	7.7	10	10
H	0.5 ~ 0.8			0.8 ~ 1.1		

■ Nominal capacitance, rated voltage, rated ripple current and case size table

U _R (V)	4		6.3		10		16		25		35		50	
C _R (μF)	D×L mm	I~												
0.1													4×5.4	0.7
0.22													4×5.4	1.6
0.33													4×5.4	2.5
0.47													4×5.4	3.5
1.0													4×5.4	7
2.2													4×5.4	11
3.3													4×5.4	13
4.7													4×5.4	16
10							4×5.4	18	5×5.4	20	5×5.4	21	6.3×5.4	24
22			4×5.4	22	5×5.4	25	5×5.4	27	6.3×5.4	36	6.3×5.4	38	6.3×7.7	51
33	4×5.4	18	5×5.4	27	5×5.4	30	6.3×5.4	40	6.3×5.4	44	6.3×5.4	42	6.3×7.7	60
47	4×5.4	23	5×5.4	33	6.3×5.4	41	6.3×5.4	48	6.3×5.4	48	6.3×7.7	49	6.3×7.7	63
100	5×5.4	42	6.3×5.4	50	6.3×5.4	53	6.3×5.4	60	6.3×7.7	91	8×10	155	8×10	155
150	6.3×5.4	61	6.3×5.4	55	6.3×5.4	62	6.3×7.7	95	8×10	140	8×10	155	10×10	300
220	6.3×5.4	68	6.3×7.7	105	6.3×7.7	105	6.3×7.7	105	8×10	175	10×10	300		
330	6.3×7.7	73	6.3×7.7	105	8×10	175	8×10	195	10×10	220				
470	6.3×7.7	105	8×10	170	8×10	210	8×10	310						
680	8×10	210	8×10	210	10×10	310	10×10	350						
1000	8×10	260	10×10	230										

↑

Rated ripple current (mA rms) (105°C, 120Hz)