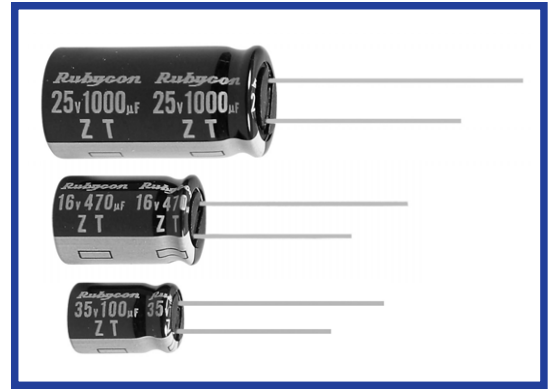


ZT SERIES

125°C Low Impedance

◆FEATURES

- Prescribe Impedance value at 100 kHz.
- Load Life : 125°C 1000~4000 hours.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics																				
Category Temperature Range	-40~+125℃																				
Rated Voltage Range	10~35Vdc																				
Capacitance Tolerance	±20% (20℃, 120Hz)																				
Leakage Current(MAX)	I=0.03CV or 3μA whichever is greater. (After 2 minutes) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																				
(tanδ) Dissipation Factor(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>tanδ</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td></tr></table> (20℃, 120Hz) When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.					Rated Voltage (Vdc)	10	16	25	35	tanδ	0.20	0.16	0.14	0.12						
Rated Voltage (Vdc)	10	16	25	35																	
tanδ	0.20	0.16	0.14	0.12																	
Endurance	After applying rated voltage with rated ripple current for specified time at 125℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±30% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 300% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table> <table><tr><td>Case Size</td><td>Life Time (hrs)</td></tr><tr><td>φD≤ 6.3</td><td>1000</td></tr><tr><td>φD=8</td><td>2000</td></tr><tr><td>φD= 10</td><td>3000</td></tr><tr><td>φD= 12.5</td><td>4000</td></tr></table>					Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 300% of the specified value.	Leakage Current	Not more than the specified value.	Case Size	Life Time (hrs)	φD≤ 6.3	1000	φD=8	2000	φD= 10	3000	φD= 12.5	4000
Capacitance Change	Within ±30% of the initial value.																				
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Case Size	Life Time (hrs)																				
φD≤ 6.3	1000																				
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>3</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>6</td><td>4</td><td>3</td><td>3</td></tr></table> (120Hz)					Rated Voltage (Vdc)	10	16	25	35	Z(-25℃)/Z(20℃)	3	2	2	2	Z(-40℃)/Z(20℃)	6	4	3	3	
Rated Voltage (Vdc)	10	16	25	35																	
Z(-25℃)/Z(20℃)	3	2	2	2																	
Z(-40℃)/Z(20℃)	6	4	3	3																	

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	120	1k	10k	100k≤
Coefficient				
22~33µF	0.20	0.50	0.80	1.00
39~100µF	0.25	0.60	0.90	1.00
120~270µF	0.35	0.70	0.92	1.00
330~680µF	0.45	0.75	0.95	1.00
820~1800µF	0.50	0.80	0.96	1.00
2200µF	0.55	0.85	0.98	1.00

◆DIMENSIONS

Technical drawing of a ZT series capacitor showing a side view and a top view.

Side View Dimensions:

- SLEEVE(PET)
- $L+a$ MAX
- 15MIN
- 4MIN
- ϕd

Top View Dimensions:

- $\phi D+0.5$ MAX
- $F \pm 0.5$
- ϕD

ϕD	5	6.3	8	10	12.5
ϕd	0.5		0.6		
F	2.0	2.5	3.5	5.0	
a	$L \leq 16 : a = 1.5$		$L \geq 20 : a = 2.0$		

◆OPTION

	Code
PET Sleeve	Blank

◆PART NUMBER

□□□	ZT	□□□□□	M	□□□	□□	DXL
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μ F)	Size ϕ D×L(mm)	Rated ripple current (mA r.m.s./125°C, 100kHz)	Impedance (Ω MAX)	
				20°C, 100kHz	−10°C, 100kHz
10	56	5×11	250	0.40	1.3
	120	6.3×11	405	0.17	0.53
	330	8×11.5	760	0.094	0.29
	470	8×16	995	0.073	0.23
	470	10×12.5	1030	0.069	0.21
	680	8×20	1250	0.054	0.17
	680	10×16	1430	0.050	0.16
	1000	10×20	1500	0.030	0.090
	1200	10×23	1620	0.029	0.086
	1500	12.5×20	1720	0.028	0.069
	2200	12.5×25	1900	0.024	0.059
16	47	5×11	250	0.40	1.3
	100	6.3×11	405	0.17	0.53
	220	8×11.5	760	0.094	0.29
	330	8×16	995	0.073	0.23
	330	10×12.5	1030	0.069	0.21
	470	8×20	1250	0.054	0.17
	470	10×16	1430	0.050	0.16
	680	10×20	1500	0.030	0.090
	820	10×23	1620	0.029	0.086
	1000	12.5×20	1720	0.028	0.069
	1500	12.5×25	1900	0.024	0.059
25	33	5×11	250	0.40	1.3
	56	6.3×11	405	0.17	0.53
	150	8×11.5	760	0.094	0.29
	220	8×16	995	0.073	0.23
	220	10×12.5	1030	0.069	0.21
	270	8×20	1250	0.054	0.17
	330	10×16	1430	0.050	0.16
	470	10×20	1500	0.030	0.090
	560	10×23	1620	0.029	0.086
	680	12.5×20	1720	0.028	0.069
	1000	12.5×25	1900	0.024	0.059
35	22	5×11	250	0.40	1.3
	56	6.3×11	405	0.17	0.53
	100	8×11.5	760	0.094	0.29
	120	8×16	995	0.073	0.23
	150	10×12.5	1030	0.069	0.21
	180	8×20	1250	0.054	0.17
	220	10×16	1430	0.050	0.16
	270	10×20	1500	0.030	0.090
	330	10×23	1620	0.029	0.086
	470	12.5×20	1720	0.028	0.069
	560	12.5×25	1900	0.024	0.059