

## ZT SERIES

## 125°C Low Impedance

• Load Life : 125°C 1000~4000 hours.

RoHS  
compliance



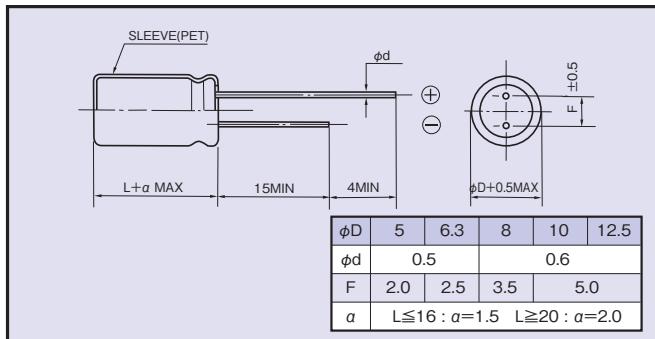
## ◆SPECIFICATIONS

Items	Characteristics																							
Category Temperature Range	-40~+125°C																							
Rated Voltage Range	10~35Vdc																							
Capacitance Tolerance	±20% (20°C, 120Hz)																							
Leakage Current(MAX)	$I=0.03CV$ or $3\mu A$ whichever is greater.(After 2 minutes) $I$ =Leakage Current( $\mu A$ ) $C$ =Capacitance( $\mu F$ ) $V$ =Rated Voltage(Vdc)																							
Dissipation Factor(MAX) ( $\tan\delta$ )	<table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td><math>\tan\delta</math></td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td></td> </tr> </table> <p>When capacitance is over 1000<math>\mu F</math>, <math>\tan\delta</math> shall be added 0.02 to the listed value with increase of every 1000<math>\mu F</math>.</p>						Rated Voltage (Vdc)	10	16	25	35	(20°C, 120Hz)	$\tan\delta$	0.20	0.16	0.14	0.12							
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$\tan\delta$	0.20	0.16	0.14	0.12																				
Endurance	<p>After applying rated voltage with rated ripple current for specified time at 125°C, the capacitors shall meet the following requirements.</p> <table border="1"> <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 border="1"> <tr> <td>Case Size</td> <td>Life Time (hrs)</td> </tr> <tr> <td><math>\phi D \leq 6.3</math></td> <td>1000</td> </tr> <tr> <td><math>\phi D = 8</math></td> <td>2000</td> </tr> <tr> <td><math>\phi D = 10</math></td> <td>3000</td> </tr> <tr> <td><math>\phi D = 12.5</math></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)	$\phi D \leq 6.3$	1000	$\phi D = 8$	2000	$\phi D = 10$	3000	$\phi D = 12.5$	4000		
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>(120Hz)</td> </tr> <tr> <td><math>Z(-25^\circ C)/Z(20^\circ C)</math></td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td><math>Z(-40^\circ C)/Z(20^\circ C)</math></td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td></td> </tr> </table>						Rated Voltage (Vdc)	10	16	25	35	(120Hz)	$Z(-25^\circ C)/Z(20^\circ C)$	3	2	2	2		$Z(-40^\circ C)/Z(20^\circ C)$	6	4	3	3	
Rated Voltage (Vdc)	10	16	25	35	(120Hz)																			
$Z(-25^\circ C)/Z(20^\circ C)$	3	2	2	2																				
$Z(-40^\circ C)/Z(20^\circ C)$	6	4	3	3																				

## ◆MULTIPLIER FOR RIPPLE CURRENT

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

## ◆DIMENSIONS (mm)



## ◆PART NUMBER

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

## ◆OPTION

Code
PET Sleeve

## ◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance ( $\mu$ F)	Size $\phi$ D×L(mm)	Rated ripple current (mA r.m.s./125°C, 100kHz)	Impedance ( $\Omega$ 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
	47	5×11	250	0.40	1.3
16	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
	33	5×11	250	0.40	1.3
	56	6.3×11	405	0.17	0.53
25	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
	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
35	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