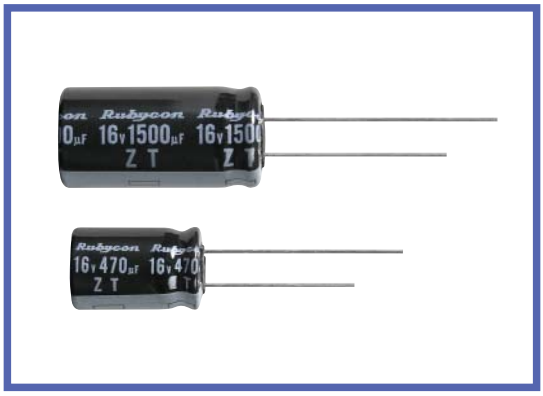
ZT SERIES

Load Life: 125°C 1000~4000hours. Low impedance.



◆ FEATURES

- Low impedance at 100kHz with selected materials.
- Load Life : 125°C 1000~4000hours.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40 ~+125°C
Rated Voltage Range	10~35V.DC
Capacitance Tolerance	± 20%(20°C,120Hz)
Leakage Current(MAX)	I=0.03CV or 3μA whichever is greater. (After 2 minutes) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX) (tanδ)	(20°C,120Hz) When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX) (tanδ)

Rated Voltage (V)	10	16	25	35
tanδ	0.20	0.16	0.14	0.12

Endurance

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

Low Temperature Stability Impedance Ratio(MAX)

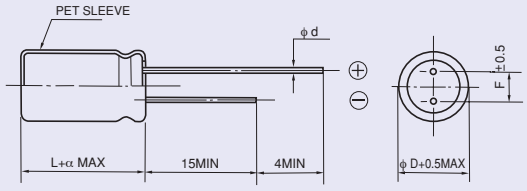
Rated Voltage (V)	10	16	25	35
Z(-25°C)/Z(20°C)	3	2	2	2
Z(-40°C)/Z(20°C)	6	4	3	3

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

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 (mm)



φD	5	6.3	8	10	12.5
φd	0.5		0.6		
F	2.0	2.5	3.5	5.0	
α	L≦16 : α=1.5 L≧20 : α=2.0				

◆PART NUMBER

□□□ Rated Voltage | ZT Series | □□□□□ Rated Capacitance | □ Capacitance Tolerance | □□□ Option | □□ Lead Forming | DxL Case Size

◆ STANDARD SIZE

Rated Voltage (V•DC)	Rated capacitance (μF)	Size φ DxL(mm)	Rated ripple current (mA r.m.s./125°C,100kHz)	(Ω MAX) Impedance	
				20°C, 100kHz	-10°C, 100kHz
10 (1A)	56	5x11	250	0.40	1.3
	120	6.3x11	405	0.17	0.53
	330	8x11.5	760	0.094	0.29
	470	8x16	995	0.073	0.23
	680	8x20	1250	0.054	0.17
	470	10x12.5	1030	0.069	0.21
	680	10x16	1430	0.050	0.16
	1000	10x20	1500	0.030	0.090
	1200	10x23	1620	0.029	0.086
	1500	12.5x20	1720	0.028	0.069
	2200	12.5x25	1900	0.024	0.059
16 (1C)	47	5x11	250	0.40	1.3
	100	6.3x11	405	0.17	0.53
	220	8x11.5	760	0.094	0.29
	330	8x16	995	0.073	0.23
	470	8x20	1250	0.054	0.17
	330	10x12.5	1030	0.069	0.21
	470	10x16	1430	0.050	0.16
	680	10x20	1500	0.030	0.090
	820	10x23	1620	0.029	0.086
	1000	12.5x20	1720	0.028	0.069
	1500	12.5x25	1900	0.024	0.059
25 (1E)	33	5x11	250	0.40	1.3
	56	6.3x11	405	0.17	0.53
	150	8x11.5	760	0.094	0.29
	220	8x16	995	0.073	0.23
	270	8x20	1250	0.054	0.17
	220	10x12.5	1030	0.069	0.21
	330	10x16	1430	0.050	0.16
	470	10x20	1500	0.030	0.090
	560	10x23	1620	0.029	0.086
	680	12.5x20	1720	0.028	0.069
	1000	12.5x25	1900	0.024	0.059
35 (1V)	22	5x11	250	0.40	1.3
	56	6.3x11	405	0.17	0.53
	100	8x11.5	760	0.094	0.29
	120	8x16	995	0.073	0.23
	180	8x20	1250	0.054	0.17
	150	10x12.5	1030	0.069	0.21
	220	10x16	1430	0.050	0.16
	270	10x20	1500	0.030	0.090
	330	10x23	1620	0.029	0.086
	470	12.5x20	1720	0.028	0.069
	560	12.5x25	1900	0.024	0.059