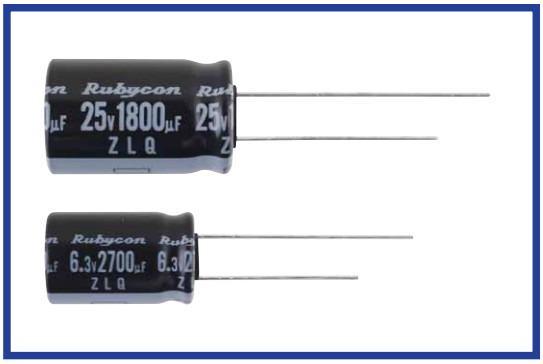
ZLQ SERIES NEW

105℃ Ultra Miniaturized, Low Impedance



◆FEATURES

- Achieved miniaturization of ZLH series, as well as high frequency impedance reduction.
- Load Life : 105℃ 3000~6000 hours.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40~+105℃
Rated Voltage Range	6.3~35Vdc
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)	(20℃,120Hz) When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.
Endurance	After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor (tanδ):

Rated Voltage (Vdc)	6.3	10	16	25	35
tanδ	0.22	0.19	0.16	0.14	0.12

Endurance:

Capacitance Change	Within ±25% of the initial value. (6.3Vdc, 10Vdc:±30%)
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Case Size	Life Time (hrs)
φD≦ 6.3	3000
φD= 8	4000
φD= 10	5000
φD≧12.5	6000

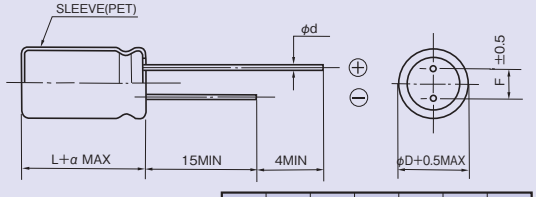
Low Temperature Stability Impedance Ratio:

Rated Voltage (Vdc)	6.3	10	16	25	35
Z(−25℃)/Z(20℃)	2	2	2	2	2
Z(−40℃)/Z(20℃)	3	3	3	3	3

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency(Hz)		120	1k	10k	100k≦
Coefficient	56~270μF	0.50	0.73	0.92	1.00
	330~680μF	0.55	0.77	0.94	1.00
	820~1800μF	0.60	0.80	0.96	1.00
	2200~12000μF	0.70	0.85	0.98	1.00

◆DIMENSIONS (mm)



φD	5	6.3	8	10	12.5	16
φd	0.5		0.6			0.8
F	2.0	2.5	3.5	5.0		7.5
α	L≦16 : α=1.5 L≧20 : α=2.0					

◆OPTION

	Code
PET Sleeve	EFC

◆PART NUMBER

□□□	ZLQ	□□□□□	M	□□□	□□	D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
				20℃, 100kHz	−10℃, 100kHz
6.3	270	5×11	400	0.21	0.77
	680	6.3×11	620	0.092	0.34
	1200	8×11.5	1060	0.049	0.15
	1500	8×16	1390	0.038	0.12
	1800	10×12.5	1470	0.035	0.11
	2200	8×20	1660	0.027	0.081
	2700	10×16	1930	0.025	0.075
	3900	10×20	2130	0.018	0.054
	4700	10×25	2500	0.015	0.045
	5600	12.5×20	2690	0.016	0.041
	8200	12.5×25	3140	0.013	0.033
	8200	12.5×30	3680	0.012	0.030
	10000	16×20	3500	0.014	0.035
	10000	12.5×35	3800	0.010	0.025
	12000	16×25	3880	0.011	0.028
10	220	5×11	400	0.21	0.77
	470	6.3×11	620	0.092	0.34
	820	8×11.5	1060	0.049	0.15
	1200	8×16	1390	0.038	0.12
	1200	10×12.5	1470	0.035	0.11
	1800	8×20	1660	0.027	0.081
	1800	10×16	1930	0.025	0.075
	2700	10×20	2130	0.018	0.054
	3300	10×25	2500	0.015	0.045
	3900	12.5×20	2690	0.016	0.041
	5600	12.5×25	3140	0.013	0.033
	6800	12.5×30	3680	0.012	0.030
	6800	16×20	3500	0.014	0.035
	8200	12.5×35	3800	0.010	0.025
	8200	16×25	3880	0.011	0.028
16	150	5×11	400	0.21	0.77
	330	6.3×11	620	0.092	0.34
	560	8×11.5	1060	0.049	0.15
	820	8×16	1390	0.038	0.12
	820	10×12.5	1470	0.035	0.11
	1200	8×20	1660	0.027	0.081
	1200	10×16	1930	0.025	0.075
	1800	10×20	2130	0.018	0.054
	2200	10×25	2500	0.015	0.045
	2700	12.5×20	2690	0.016	0.041
	3900	12.5×25	3140	0.013	0.033
	3900	12.5×30	3680	0.012	0.030
	4700	16×20	3500	0.014	0.035
	5600	12.5×35	3800	0.010	0.025
	5600	16×25	3880	0.011	0.028

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
				20℃, 100kHz	−10℃, 100kHz
25	82	5×11	400	0.21	0.77
	180	6.3×11	620	0.092	0.34
	330	8×11.5	1060	0.049	0.15
	470	8×16	1390	0.038	0.12
	560	10×12.5	1470	0.035	0.11
	680	8×20	1660	0.027	0.081
	820	10×16	1930	0.025	0.075
	1200	10×20	2130	0.018	0.054
	1500	10×25	2500	0.015	0.045
	1800	12.5×20	2690	0.016	0.041
	2200	12.5×25	3140	0.013	0.033
	2700	12.5×30	3680	0.012	0.030
	2700	16×20	3500	0.014	0.035
	3300	12.5×35	3800	0.010	0.025
	3900	16×25	3880	0.011	0.028
35	56	5×11	400	0.21	0.77
	120	6.3×11	620	0.092	0.34
	220	8×11.5	1060	0.049	0.15
	270	8×16	1390	0.038	0.12
	330	10×12.5	1470	0.035	0.11
	390	8×20	1660	0.027	0.081
	470	10×16	1930	0.025	0.075
	680	10×20	2130	0.018	0.054
	820	10×25	2500	0.015	0.045
	1000	12.5×20	2690	0.016	0.041
	1500	12.5×25	3140	0.013	0.033
	1500	12.5×30	3680	0.012	0.030
	1800	16×20	3500	0.014	0.035
	2200	12.5×35	3800	0.010	0.025
	2200	16×25	3880	0.011	0.028