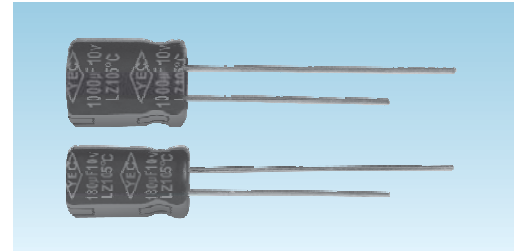


LZ series

Feature 特性

- 105°C high ripple current, low impedance.
105°C 高紋波電流, 低阻抗品。
- Load life: 105°C 2000 hours
負載壽命: 105°C 2000 小時
- LZ → higher ripple current and lower impedance at 100KHZ
LZ → 高紋波電流及低阻抗(100KHZ)



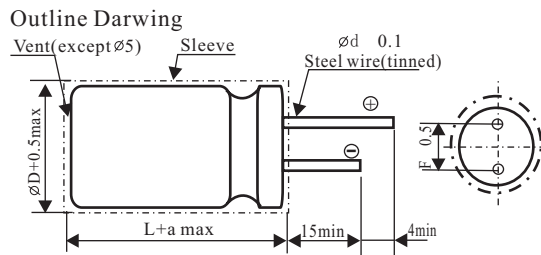
Specification 規格表

Item 項目	Performance Characteristic 特 性																											
Operating Temperature Range 使用溫度範圍	-40~+105°C																											
Rated Working Voltage Range 定格電壓範圍	6.3~100V.DC																											
Capacitance Tolerance 靜電容量容許差	20% (at 20°C, 120Hz)																											
Leakage Current(Max)at 20°C 漏洩電流	<p>The rated voltage shall be applied across Capacitor & its protective resistor of 1000Ω whichever is greater (after 2 minute) at 20°C 將供試電容器串聯保護電阻(約1000Ω)通以額定電壓 2 分鐘後, 在20°C 環境溫度下測試漏洩電流需小於下述公式值: 最小值為 3μA.</p> <p>$I=0.01CV$ or 3μA (minimum) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V) I=漏洩電流 C=靜電容量 V=額定電壓</p>																											
Dissipation Factor(Max) at 120Hz 20°C 損失角之正接	<p>For capacitance of more than 1000 μF, add 0.02 for every increase of 1000 μF. 當電容器靜電容量大於1000μF時, 每增加1000μF, tan δ 需增加0.02</p> <table border="1"> <thead> <tr> <th>Rated Voltage 定格電壓(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Tan δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </tbody> </table>	Rated Voltage 定格電壓(V)	6.3	10	16	25	35	50	63	100	Tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08									
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Tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																				
Load Life 高溫負載壽命	<p>After 2000 hours application of rated voltage at 105°C, capacitors meet the characteristic of following requirements. 在105°C, 負載額定電壓2000小時後, 在恢復常溫常濕情況下電容器必須滿足下列特性</p> <table border="1"> <tbody> <tr> <td>Variation of capacitance 靜電容量變化率</td> <td>Within 25% of the initial value 初期值之 25%以內</td> </tr> <tr> <td>Tan δ 損失角正接</td> <td>200% or less of initial specified value 低於規格值200%以下</td> </tr> <tr> <td>Leakage current 漏洩電流</td> <td>Initial specified value or less 低於初期規格值以下</td> </tr> <tr> <td>Appearance 外觀</td> <td>Without distinct damage 無顯著異常</td> </tr> </tbody> </table>	Variation of capacitance 靜電容量變化率	Within 25% of the initial value 初期值之 25%以內	Tan δ 損失角正接	200% or less of initial specified value 低於規格值200%以下	Leakage current 漏洩電流	Initial specified value or less 低於初期規格值以下	Appearance 外觀	Without distinct damage 無顯著異常																			
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Shelf Life 高溫無負載壽命	<p>The following specification shall be satisfied when the capacitors are stored to 20°C after exposing them for 1000 hours at 105°C without voltage applied, The capacitors meet the specified value for load life characteristics listed above. 電容器在無負載電壓105°C 環境下放置1000小時後, 恢復20°C 環境溫度下, 電容器特性必須要符合上述 “高溫負載壽命試驗” 之電氣特性</p>																											
Stability At Low Temperature 低溫穩定特性	<p>Impedance Ratio At 120Hz 低溫特性阻抗比</p> <table border="1"> <thead> <tr> <th>Rated Voltage 定格電壓(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage 定格電壓(V)	6.3	10	16	25	35	50	63	100	Z(-25°C)/Z(20°C)	2	2	2	2	2	2	2	2	Z(-40°C)/Z(20°C)	3	3	3	3	3	3	3	3
Rated Voltage 定格電壓(V)	6.3	10	16	25	35	50	63	100																				
Z(-25°C)/Z(20°C)	2	2	2	2	2	2	2	2																				
Z(-40°C)/Z(20°C)	3	3	3	3	3	3	3	3																				

LZ series

Case sizes and Dimensions

寸法圖



Lead spacing and wire diameter(unit:mm)

øD	5	6.3	8	10	12.5/13	16	18
F	2.0	2.5	3.5	5.0		7.5	
ød	0.5	0.5	0.6		0.8		
α	1.0(L≤20)			2.0(L>20)			

Temperature Coefficient 周圍溫度係數

Ambient Temperature 周圍溫度(°C)	105	85	65≥
Coefficient 係數	1.0	1.7	2.1

Multiplier for ripple current 紋波電流補正係數

Frequency Coefficient 周波數係數

6.3~50WV

Frequency 周波數(Hz)		60(50)	120	1K	10K	100K≤
Coefficient 係數	6.8~33 μ F	0.45	0.55	0.75	0.90	1.00
	39~330 μ F	0.60	0.70	0.85	0.95	1.00
	390~1000 μ F	0.65	0.75	0.90	0.98	1.00
	1200~6800 μ F	0.75	0.80	0.95	1.00	1.00

63~100WV

Frequency 周波數(Hz)		60(50)	120	1K	10K	100K≤
Coefficient 係數	6.8~33 μ F	0.45	0.55	0.75	0.90	1.00
	39~330 μ F	0.50	0.60	0.80	0.95	1.00
	390~1500 μ F	0.55	0.65	0.85	0.98	1.00

Standard Size(øDXLmm) & Rated Ripple Current(mA r.m.s.) at 105°C 100KHZ, Impedance Z(mΩ) at 20°C 100KHZ

尺寸(直徑X高度)一覽表, R.C.=紋波電流(mA r.m.s.)一覽表, Z=阻抗(mΩ)一覽表

WV (V. DC) 定格電壓 Cap (μ F) 定格靜電容量	6.3V			10V			16V			25V		
	SIZE	R.C.	Z	SIZE	R.C.	Z	SIZE	R.C.	Z	SIZE	R.C.	Z
47										5X11	250	300
56							5X11	250	300	6.3X11	330	220
100				5X11	250	300	6.3X11	330	220	6.3X11	400	130
120				5X11	270	270	6.3X11	400	130	6.3X11	470	110
150	5X11	250	300	6.3X11	330	220	6.3X11	470	110	8X11.5	580	100
220	6.3X11	330	220	6.3X11	400	130	8X11.5	580	100	8X11.5	760	72
330	6.3X11	400	130	8X11.5	580	100	8X11.5	760	72	8X16	990	56
470	8X11.5	580	100	8X11.5	760	72	8X16	990	56	10X16	1430	38
560	8X11.5	760	72	8X11.5	860	66	10X16	1200	47	10X20	1550	30
680	8X11.5	860	66	8X16	990	56	10X16	1430	38	10X20	1820	23
820	8X16	995	56	10X16	1200	47	10X20	1550	30	10X25	2150	22
1000	10X12.5	1030	53	10X16	1430	38	10X20	1820	23	12.5X20	2360	21
1200	10X16	1430	38	10X20	1820	23	10X25	2150	22	12.5X25	2500	20
1500	10X20	1820	23	10X25	2150	22	12.5X20	2360	21	12.5X25	2770	18
1800	10X20	1820	23	10X25	2150	22	12.5X25	2500	20	12.5X30	3290	16
2200	10X25	2150	22	12.5X20	2360	21	12.5X25	2700	18	12.5X35	3400	15
2700	10X25	2150	22	12.5X25	2500	20	12.5X30	3290	16	16X25	3460	16
3300	12.5X20	2360	21	12.5X25	2770	18	12.5X35	3400	15			



ALUMINUM ELECTROLYTIC CAPACITOR

鋁質電解電容器

LZ series

■ Standard Size(ØDXLmm) & Rated Ripple Current(mA r.m.s.) at 105°C 100KHZ,
Impedance Z(mΩ) at 20°C 100KHZ

尺寸(直徑X高度)一覽表, R. C. =紋波電流 (mA r.m.s.)一覽表, Z=阻抗 (mΩ) 一覽表 (接上表)

WV (V. DC) 定格電壓 Cap (μF) 定格靜電容量	6.3V			10V			16V			25V		
	SIZE	R.C.	Z	SIZE	R.C.	Z	SIZE	R.C.	Z	SIZE	R.C.	Z
3900	12.5X25	2770	18	12.5X30	3290	16	16X25	3460	16			
4700	12.5X30	3290	16	12.5X35	3400	15						
5600	12.5X35	3400	15	16X25	3460	16						
6800	16X25	3460	16									

■ Standard Size(ØDXLmm) & Rated Ripple Current(mA r.m.s.) at 105°C 100KHZ,
Impedance Z(mΩ) at 20°C 100KHZ

尺寸(直徑X高度)一覽表, R. C. =紋波電流 (mA r.m.s.)一覽表, Z=阻抗 (mΩ) 一覽表

WV (V. DC) 定格電壓 Cap (μF) 定格靜電容量	35V			50V			63V			100V		
	SIZE	R.C.	Z	SIZE	R.C.	Z	SIZE	R.C.	Z	SIZE	R.C.	Z
6.8										5X11	120	1440
10							5X11	120	1440	6.3X11	170	800
15							5X11	160	880	6.3X11	200	570
22				5X11	230	340	6.3X11	220	500	6.3X11	230	470
27	5X11	230	340	6.3X11	250	300	6.3X11	240	430	8X11.5	350	360
33	5X11	250	300	6.3X11	270	270	6.3X11	260	350	8X11.5	370	310
39	6.3X11	270	270	6.3X11	280	250	6.3X11	290	300	8X16	450	250
47	6.3X11	310	220	6.3X11	300	220	8X11.5	400	260	10X12.5	450	240
56	6.3X11	400	130	6.3X11	350	160	8X11.5	500	220	8X20	560	190
68	6.3X11	420	120	8X11.5	470	150	8X16	520	190	10X16	580	180
82	6.3X11	470	110	8X11.5	530	120	8X16	660	160	10X20	750	130
100	8X11.5	580	100	8X11.5	700	74	10X12.5	680	150	10X25	880	120
120	8X11.5	630	85	8X16	950	61	8X20	820	120	12.5X20	1040	94
150	8X11.5	760	72	10X12.5	970	61	10X20	920	100	12.5X25	1110	83
180	8X11.5	860	64	8X20	1190	46	10X20	1100	80	12.5X25	1190	71
220	8X16	990	56	10X16	1370	42	10X25	1300	73	12.5X30	1410	63
270	8X20	1250	41	10X20	1580	30	12.5X20	1490	60	16X25	1600	53
330	10X16	1430	38	10X25	1870	28	12.5X25	1850	43	16X31.5	1670	47
390	10X20	1550	30	10X25	1870	28	12.5X30	2050	41	16X31.5	1750	41
470	10X20	1820	23	12.5X20	2050	27	12.5X30	2250	39	18X31.5	1770	39
560	10X25	2150	22	12.5X25	2410	23	12.5X35	2450	33	18X35.5	2060	31
680	12.5X20	2360	21	12.5X30	2860	21	16X25	2550	32	18X41	2570	28
820	12.5X25	2500	20	12.5X35	2960	19	16X31.5	2810	26			
1000	12.5X25	2770	18	16X25	3010	21	16X35.5	2830	21			
1200	12.5X30	3290	16				18X35.5	3310	20			
1500	12.5X35	3400	15				18X41	3420	18			
1800	16X25	3460	16									