



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LXW SERIES
NEW
105°C Long Life (10000~12000 hours), Ultra Miniaturized

• Temperature Range : -40°C~+105°C

RoHS compliance


◆ SPECIFICATIONS

Items	Characteristics																		
Category Temperature Range	-40~+105°C																		
Rated Voltage Range	400~500Vdc																		
Capacitance Tolerance	±20% (20°C, 120Hz)																		
Leakage Current(MAX)	$I = 3 \sqrt{CV}$ (After 5 minutes application of rated voltage) $I = \text{Leakage Current} (\mu A)$ $C = \text{Capacitance} (\mu F)$ $V = \text{Rated Voltage (Vdc)}$																		
Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>400</td> <td>420~500</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.20</td> <td>0.25</td> <td></td> </tr> </table>	Rated Voltage (Vdc)	400	420~500	(20°C, 120Hz)	tanδ	0.20	0.25											
Rated Voltage (Vdc)	400	420~500	(20°C, 120Hz)																
tanδ	0.20	0.25																	
Endurance	After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> <td>Case Size</td> <td>Life Time (hrs)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> <td>L ≤ 20</td> <td>10000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>L ≥ 25</td> <td>12000</td> </tr> </table>	Capacitance Change	Within ±20% of the initial value.	Case Size	Life Time (hrs)	Dissipation Factor	Not more than 200% of the specified value.	L ≤ 20	10000	Leakage Current	Not more than the specified value.	L ≥ 25	12000						
Capacitance Change	Within ±20% of the initial value.	Case Size	Life Time (hrs)																
Dissipation Factor	Not more than 200% of the specified value.	L ≤ 20	10000																
Leakage Current	Not more than the specified value.	L ≥ 25	12000																
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>400</td> <td>420</td> <td>450</td> <td>500</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C) / Z(20°C)</td> <td>5</td> <td>6</td> <td>6</td> <td>8</td> <td></td> </tr> <tr> <td>Z(-40°C) / Z(20°C)</td> <td>6</td> <td>10</td> <td>10</td> <td>12</td> <td></td> </tr> </table>	Rated Voltage (Vdc)	400	420	450	500	(120Hz)	Z(-25°C) / Z(20°C)	5	6	6	8		Z(-40°C) / Z(20°C)	6	10	10	12	
Rated Voltage (Vdc)	400	420	450	500	(120Hz)														
Z(-25°C) / Z(20°C)	5	6	6	8															
Z(-40°C) / Z(20°C)	6	10	10	12															

◆ MULTIPLIER FOR RIPPLE CURRENT

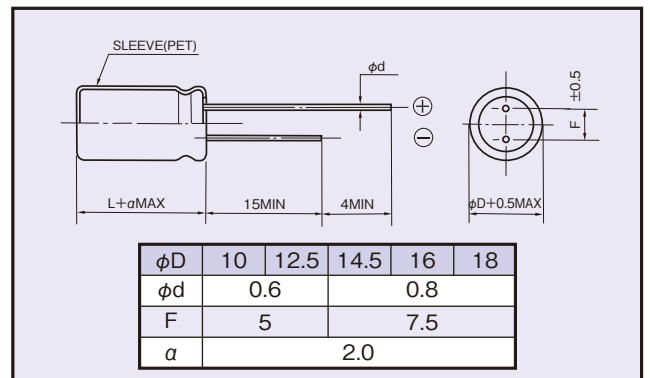
Frequency (Hz)		60(50)	120	500	1k	10k	100k ≤
Coefficient	15~82µF	0.80	1.00	1.30	1.50	2.00	2.20
	100~220µF	0.80	1.00	1.30	1.50	1.90	2.00

◆ OPTION

	Code
PET Sleeve (-40~+105°C)	EFR

◆ DIMENSIONS

(mm)


◆ PART NUMBER

□□□	LXW	□□□□□	M	□□□	□□	DXL
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 (A r.m.s./105°C)	
			120Hz	100kHz
400	39	10×30	0.410	0.902
	39	12.5×20	0.390	0.858
	47	10×35	0.480	1.056
	47	12.5×25	0.460	1.012
	47	14.5×20	0.460	1.012
	56	10×40	0.540	1.188
	56	16×20	0.520	1.144
	68	10×45	0.610	1.342
	68	10×50	0.640	1.408
	68	12.5×30	0.580	1.276
	68	12.5×35	0.620	1.364
	68	14.5×25	0.590	1.298
	82	10×55	0.720	1.584
	82	10×60	0.740	1.628
	82	12.5×40	0.700	1.540
	82	14.5×30	0.680	1.496
	82	16×25	0.660	1.452
	82	18×20	0.630	1.386
	100	12.5×45	0.800	1.600
	100	12.5×50	0.830	1.660
	100	14.5×35	0.780	1.560
	100	16×30	0.770	1.540
	120	14.5×40	0.890	1.780
	120	14.5×45	0.920	1.840
	120	16×35	0.880	1.760
	120	18×25	0.790	1.580
	150	14.5×50	1.060	2.120
	150	16×40	1.010	2.020
	150	18×30	0.930	1.860
	180	16×45	1.140	2.280
180	16×50	1.180	2.360	
180	18×35	1.060	2.120	
180	18×40	1.140	2.280	
220	18×45	1.290	2.580	
220	18×50	1.340	2.680	

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated Ripple Current (A r.m.s./105°C)	
			120Hz	100kHz
420	33	12.5×20	0.340	0.748
	39	10×30	0.380	0.836
	47	10×35	0.440	0.968
	47	12.5×25	0.430	0.946
	47	14.5×20	0.420	0.924
	56	10×40	0.490	1.078
	56	10×45	0.520	1.144
	56	12.5×30	0.500	1.100
	56	14.5×25	0.500	1.100
	56	16×20	0.480	1.056
	68	10×50	0.590	1.298
	68	10×55	0.610	1.342
	68	12.5×35	0.570	1.254
	68	18×20	0.550	1.210
	82	10×60	0.680	1.496
	82	12.5×40	0.650	1.430
	82	14.5×30	0.630	1.386
	82	16×25	0.610	1.342
	100	12.5×45	0.730	1.460
	100	12.5×50	0.770	1.540
	100	14.5×35	0.720	1.440
	100	14.5×40	0.760	1.520
	100	16×30	0.720	1.440
	100	18×25	0.700	1.400
	120	14.5×45	0.860	1.720
	120	14.5×50	0.890	1.780
	120	16×35	0.820	1.640
	120	18×30	0.810	1.620
	150	16×40	0.930	1.860
	150	16×45	0.980	1.960
150	18×35	0.940	1.880	
180	16×50	1.100	2.200	
180	18×40	1.060	2.120	
220	18×45	1.200	2.400	
220	18×50	1.250	2.500	

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μ F)	Size ϕ D×L (mm)	Rated Ripple Current (A r.m.s./105°C)	
			120Hz	100kHz
450	27	12.5×20	0.310	0.682
	33	10×30	0.360	0.792
	39	10×35	0.410	0.902
	39	12.5×25	0.400	0.880
	39	14.5×20	0.390	0.858
	47	10×40	0.460	1.012
	47	16×20	0.450	0.990
	56	10×45	0.520	1.144
	56	10×50	0.540	1.188
	56	12.5×30	0.490	1.078
	56	14.5×25	0.500	1.100
	68	10×55	0.610	1.342
	68	10×60	0.630	1.386
	68	12.5×35	0.560	1.232
	68	12.5×40	0.600	1.320
	68	14.5×30	0.580	1.276
	68	16×25	0.570	1.254
	68	18×20	0.540	1.188
	82	12.5×45	0.680	1.496
	82	12.5×50	0.700	1.540
	82	14.5×35	0.670	1.474
	82	16×30	0.650	1.430
	82	18×25	0.640	1.408
	100	14.5×40	0.760	1.520
	100	16×35	0.750	1.500
	120	14.5×45	0.850	1.700
	120	14.5×50	0.890	1.780
	120	16×40	0.860	1.720
	120	18×30	0.800	1.600
	150	16×45	0.980	1.960
150	16×50	1.020	2.040	
150	18×35	0.920	1.840	
150	18×40	0.980	1.960	
180	18×45	1.110	2.220	
220	18×50	1.230	2.460	

Rated Voltage (Vdc)	Capacitance (μ F)	Size ϕ D×L (mm)	Rated Ripple Current (A r.m.s./105°C)	
			120Hz	100kHz
500	15	12.5×20	0.250	0.550
	18	12.5×25	0.290	0.638
	18	14.5×20	0.280	0.616
	22	16×20	0.320	0.704
	27	12.5×30	0.360	0.792
	27	12.5×35	0.380	0.836
	27	14.5×25	0.370	0.814
	33	12.5×40	0.440	0.968
	33	14.5×30	0.430	0.946
	33	16×25	0.420	0.924
	33	18×20	0.410	0.902
	39	12.5×45	0.500	1.100
	39	14.5×35	0.490	1.078
	39	16×30	0.480	1.056
	47	12.5×50	0.560	1.232
	47	14.5×40	0.550	1.210
	47	18×25	0.510	1.122
	56	14.5×45	0.620	1.364
	56	16×35	0.590	1.298
	56	16×40	0.620	1.364
	56	18×30	0.590	1.298
	68	14.5×50	0.690	1.518
	68	16×45	0.710	1.562
	68	18×35	0.680	1.496
	82	16×50	0.790	1.738
	82	18×40	0.770	1.694
	100	18×45	0.860	1.720
	100	18×50	0.910	1.820