

LXW series

105°C長寿命(10000~12000時間)超小形化品 -40°C対応
105°C 10000~12000 hours, Ultra Miniaturized, -40°C~105°C



◆規格表/SPECIFICATIONS

項目 Item	特性 Characteristics																						
カテゴリ温度範囲 Category Temperature Range	-40~+105°C																						
定格電圧範囲 Rated Voltage Range	400~500Vdc																						
静電容量許容差 Capacitance Tolerance	±20%(20°C, 120Hz)																						
漏れ電流 Leakage Current (MAX)	$I=3\sqrt{CV}$ (定格電圧印加5分後) $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=漏れ電流(μA) C=静電容量(μF) V=定格電圧(Vdc) Leakage Current Capacitance Rated Voltage																						
損失角の正接(tan δ) Dissipation Factor (MAX)	<table border="1"> <tr> <td>定格電圧 (Vdc) Rated Voltage</td> <td>400</td> <td>420~500</td> </tr> <tr> <td>tan δ</td> <td>0.20</td> <td>0.25</td> </tr> </table> (20°C, 120Hz)	定格電圧 (Vdc) Rated Voltage	400	420~500	tan δ	0.20	0.25																
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耐久性 Endurance	105°C中で右表の時間定格電圧(リップル重畳)印加後、下記項目を満足すること。 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>静電容量変化率 Capacitance Change</td> <td>初期値の ±20% 以内 Within ±20% of the initial value.</td> </tr> <tr> <td>損失角の正接 Dissipation Factor</td> <td>規格値の 200% 以下 Not more than 200% of the specified value.</td> </tr> <tr> <td>漏れ電流 Leakage Current</td> <td>規格値以下 Not more than the specified value.</td> </tr> </table>	静電容量変化率 Capacitance Change	初期値の ±20% 以内 Within ±20% of the initial value.	損失角の正接 Dissipation Factor	規格値の 200% 以下 Not more than 200% of the specified value.	漏れ電流 Leakage Current	規格値以下 Not more than the specified value.															
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低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX)	<table border="1"> <tr> <td>定格電圧 (Vdc) Rated Voltage</td> <td>400</td> <td>420</td> <td>450</td> <td>500</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>5</td> <td>6</td> <td>6</td> <td>8</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>10</td> <td>10</td> <td>12</td> </tr> </table> (120Hz)	定格電圧 (Vdc) Rated Voltage	400	420	450	500	Z(-25°C)/Z(+20°C)	5	6	6	8	Z(-40°C)/Z(+20°C)	6	10	10	12	<table border="1"> <tr> <td>ケースサイズ Case Size</td> <td>時間(hrs) Time(hrs)</td> </tr> <tr> <td>L ≤ 20</td> <td>10000</td> </tr> <tr> <td>L ≥ 25</td> <td>12000</td> </tr> </table>	ケースサイズ Case Size	時間(hrs) Time(hrs)	L ≤ 20	10000	L ≥ 25	12000
定格電圧 (Vdc) Rated Voltage	400	420	450	500																			
Z(-25°C)/Z(+20°C)	5	6	6	8																			
Z(-40°C)/Z(+20°C)	6	10	10	12																			
ケースサイズ Case Size	時間(hrs) Time(hrs)																						
L ≤ 20	10000																						
L ≥ 25	12000																						

◆呼称方法/PART NUMBER

□□□ LXW □□□□□ M □□□ □□ D x L
 定格電圧 シリーズ名 静電容量 静電容量許容差 副記号 リード加工記号 ケースサイズ
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

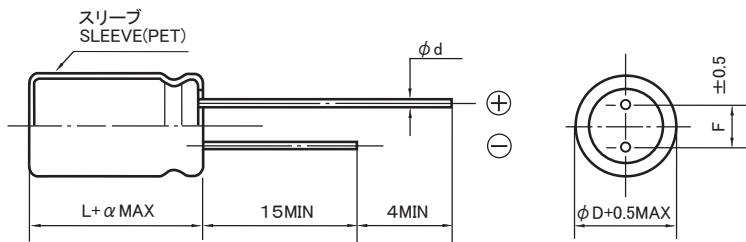
◆リップル電流補正係数/
MULTIPLIER FOR RIPPLE CURRENT

周波数 (Hz) Frequency	60(50)	120	500	1k	10k	100k ≤
係数 Coefficient	18~82 μF	0.80	1.00	1.30	1.50	2.00
	100~220 μF	0.80	1.00	1.30	1.50	1.90

◆副記号/OPTION

EFR : PETスリーブ PET Sleeve

◆寸法図／DIMENSIONS



(mm)					
φD	10	12.5	14.5	16	18
φd	0.6		0.8		
F	5.0		7.5		
α	2.0				

◆標準品一覧表／STANDARD SIZE

Rated Ripple Current (A r.m.s./105°C)

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μF)	外形寸法 Size φDxL (mm)	定格リップル電流 Rated Ripple Current	
			120Hz	100kHz
400	39	10x30	0.410	0.902
	39	12.5x20	0.390	0.858
	47	10x35	0.480	1.056
	47	12.5x25	0.460	1.012
	47	14.5x20	0.460	1.012
	56	10x40	0.540	1.188
	56	16x20	0.520	1.144
	68	10x45	0.610	1.342
	68	10x50	0.640	1.408
	68	12.5x30	0.580	1.276
	68	12.5x35	0.620	1.364
	68	14.5x25	0.590	1.298
	82	10x55	0.720	1.584
	82	10x60	0.740	1.628
	82	12.5x40	0.700	1.540
	82	14.5x30	0.680	1.496
	82	16x25	0.660	1.452
	82	18x20	0.630	1.386
	100	12.5x45	0.800	1.600
	100	12.5x50	0.830	1.660
	100	14.5x35	0.780	1.560
	100	16x30	0.770	1.540
	120	14.5x40	0.890	1.780
	120	14.5x45	0.920	1.840
	120	16x35	0.880	1.760
	120	18x25	0.790	1.580
	150	14.5x50	1.060	2.120
	150	16x40	1.010	2.020
150	18x30	0.930	1.860	
180	16x45	1.140	2.280	
180	16x50	1.180	2.360	
180	18x35	1.060	2.120	
180	18x40	1.140	2.280	
220	18x45	1.290	2.580	
220	18x50	1.340	2.680	

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μF)	外形寸法 Size φDxL (mm)	定格リップル電流 Rated Ripple Current	
			120Hz	100kHz
420	33	12.5x20	0.340	0.748
	39	10x30	0.380	0.836
	47	10x35	0.440	0.968
	47	12.5x25	0.430	0.946
	47	14.5x20	0.420	0.924
	56	10x40	0.490	1.078
	56	10x45	0.520	1.144
	56	12.5x30	0.500	1.100
	56	14.5x25	0.500	1.100
	56	16x20	0.480	1.056
	68	10x50	0.590	1.298
	68	10x55	0.610	1.342
	68	12.5x35	0.570	1.254
	68	18x20	0.550	1.210
	82	10x60	0.680	1.496
	82	12.5x40	0.650	1.430
	82	14.5x30	0.630	1.386
	82	16x25	0.610	1.342
	100	12.5x45	0.730	1.460
	100	12.5x50	0.770	1.540
	100	14.5x35	0.720	1.440
	100	14.5x40	0.760	1.520
	100	16x30	0.720	1.440
	100	18x25	0.700	1.400
	120	14.5x45	0.860	1.720
	120	14.5x50	0.890	1.780
	120	16x35	0.820	1.640
	120	18x30	0.810	1.620
150	16x40	0.930	1.860	
150	16x45	0.980	1.960	
150	18x35	0.940	1.880	
180	16x50	1.100	2.200	
180	18x40	1.060	2.120	
220	18x45	1.200	2.400	
220	18x50	1.250	2.500	

◆標準品一覧表／STANDARD SIZE

Rated Ripple Current (A r.m.s./105°C)

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μ F)	外形寸法 Size ϕ DxL (mm)	定格リプル電流 RatedRipple Current	
			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	

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μ F)	外形寸法 Size ϕ DxL (mm)	定格リプル電流 RatedRipple Current	
			120Hz	100kHz
500	18	12.5×20	0.250	0.550
	22	12.5×25	0.290	0.638
	22	14.5×20	0.280	0.616
	27	16×20	0.320	0.704
	33	12.5×30	0.360	0.792
	33	12.5×35	0.380	0.836
	33	14.5×25	0.370	0.814
	39	12.5×40	0.440	0.968
	39	12.5×45	0.500	1.100
	39	14.5×30	0.430	0.946
	39	16×25	0.420	0.924
	39	18×20	0.410	0.902
	47	12.5×50	0.560	1.232
	47	14.5×35	0.490	1.078
	47	16×30	0.480	1.056
	56	14.5×40	0.550	1.210
	56	14.5×45	0.620	1.364
	56	16×35	0.590	1.298
	56	18×25	0.510	1.122
	56	18×30	0.590	1.298
	68	14.5×50	0.690	1.518
	68	16×40	0.620	1.364
	82	16×45	0.710	1.562
	82	16×50	0.790	1.738
	82	18×35	0.680	1.496
	82	18×40	0.770	1.694
	100	18×45	0.860	1.720
	120	18×50	0.910	1.820