LH

Series

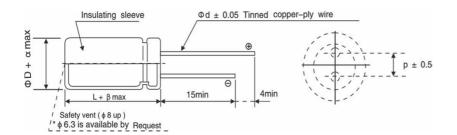
- Load life of 2000 hours at 105°C
- Extended temperature range -40~+105°C
- High ripple current, low impedance



■SPECIFICATIONS

Item	Characteristics										
Category Temperature Range	-40 ~ +105℃										
Voltage Range	6.3 ~ 100\	6.3 ~ 100V.DC									
Nominal Cap. Range	6.8 ~ 18000µF										
Capacitance Tolerance	± 20 % (at 120Hz , 20°C)										
Leakage Current		I=0.01CV or 3 μA ,whichever is greater (After 2 minutes). where, I: max.leakage current (μA), C:Nominal capacitance(μF), V:Rated voltage (V) (at 20°C)									
	WV	6.3	10	16	25	35	50	63	100	7	
Dissipation Factor (MAX)	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08		
(tanδ) (at 120Hz ,20°C)	When non	ninal cap	acitance	s over 100)0μF,			-11		_	
	$tan\delta$ shall be added 0.02 to the listed value with increase of every 1000 μF .										
Low Temp.Impedance	W	/	6.3	10	16~25	35~100					
Stability at 120Hz	Z-25°C /	Z+20°C	4	3	2	2					
Otability at 120112	Z-40°C /	Z+20°C	8	6	4	3					
	After 2000 limits:	hours a	pplication	of DC rate	ed working	g voltage a	it 105℃,	the capac	itor shall r	meet the fo	ollowing
Endurance	Capacitan	ce chan	ge	≤ ±20% of the initial value							
	Dissipation	n Factor		≤ 200% of the initial specified value							
	Leakage Current ≤ the initial specified value]
Shelf Life	is to be give	After storage for 1000 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirement specified in the table "High Temperature Loading" can be met.									

■ DRAWING



Unit: (mm)

ΦD	5	6.3	8	10	13	16	18				
Р	2.0	2.5	3.5	5.0	5.0	7.5	7.5				
Фф		0.5		0.6 0.8							
β		1.0			1.	-					
α	0.5										

■ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz)	120	1K	10K	100K
6.8~680	0.49	0.73	0.92	1.00
820~1800	0.60	0.80	0.96	1.00
2200~18000	0.70	0.85	0.98	1.00

(2) Temperature Coefficient

Ambient Temperature(℃)	40	60	70	85	105
Coefficient	2.40	2.10	1.78	1.65	1.00



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■STANDARD RATINGS

WV(vdc)			6.3		WV(vdc)	10					
Parameter	·		edance Ripple Current		Parameter	+ 6	Impedance		Ripple Current		
Cap.(µF)		20°C 100KHz	-10°C 100KHz	(mArms) 105℃, 100KHz	Cap.(µF)	ФDxL (mm)	20°C 100KHz	-10°C 100KHz	(mArms) 105℃, 100KHz		
150	5x11	1.160	4.600	215	100	5x11	1.160	4.600	215		
330	6.3x11	0.440	1.740	340	220	6.3x11	0.440	1.740	340		
680	8x11.5	0.260	1.040	640	470	8x11.5	0.260	1.040	640		
820	10x12.5	0.160	0.640	865	680	10x12.5	0.160	0.640	865		
1000	8x16	0.140	0.520	880	1000	10x16	0.120	0.480	1210		
1200	10x16	0.120	0.480	1210	1200	10x20	0.092	0.360	1400		
1500	10x20	0.092	0.360	1400	1500	10x25	0.084	0.340	1650		
1800	13x20	0.089	0.320	1450	2200	13x20	0.070	0.280	1900		
2200	13x20	0.080	0.280	1650	3300	13x25	0.054	0.178	2230		
2700	13x20	0.075	0.260	1940	4700	16x31	0.045	0.162	2880		
3300	13x20	0.070	0.240	1900	5600	16x31	0.040	0.146	3350		
4700	13X30	0.048	0.156	2650	6800	18x32	0.038	0.123	3450		
5600	16x20	0.046	0.135	2530	8200	18x32	0.030	0.100	4170		
6800	16x25	0.042	0.120	2930	10000	18x40	0.028	0.082	4220		
10000	16x36	0.030	0.088	3640	12000	18x40	0.024	0.064	4280		
18000	18x40	0.024	0.064	4280							

WV(vdc)			16	-	WV(vdc)	25					
Parameter	('''''')	Imped	dance	Ripple Current	Parameter	5	Impedance		Ripple Current		
Cap.(μF)		20°C 100KHz	-10°C 100KHz	(mArms) 105℃, 100KHz		ФDxL (mm)	20°C 100KHz	-10°C 100KHz	(mArms) 105℃, 100KHz		
56	5x11	1.160	4.600	215	47	5x11	1.160	4.600	215		
120	6.3x11	0.440	1.740	340	100	6.3x11	0.440	1.740	340		
330	8x11.5	0.260	1.040	640	220	8x11.5	0.260	1.040	640		
470	10x12.5	0.174	0.700	865	330	10x12.5	0.160	0.640	865		
680	10x16	0.138	0.540	1210	470	10x16	0.120	0.480	1210		
1000	10x20	0.092	0.360	1400	680	10x20	0.092	0.360	1400		
1500	13x20	0.075	0.260	1720	820	10x25	0.084	0.340	1650		
2200	13x25	0.054	0.178	2230	1000	13x20	0.070	0.240	1900		
2700	16x20	0.049	0.140	2530	1200	13X25	0.064	0.190	2210		
3300	16x31	0.040	0.100	2880	1500	13x25	0.054	0.178	2230		
4700	16x31	0.036	0.065	3450	2200	16x25	0.050	0.162	2860		
5600	18x32	0.034	0.050	4170	2700	16x25	0.042	0.120	2930		
6800	18x36	0.030	0.040	4200	3300	18x25	0.036	0.100	3140		
8200	18x36	0.028	0.038	4220	4700	18x36	0.028	0.085	4080		
10000	18x40	0.024	0.032	4280	5600	18x40	0.024	0.064	4280		

ELCON

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Series

■STANDARD RATINGS

WV(vdc)			35		WV(vdc)				
Parameter		Impedance Ripple Current		Parameter		Imped	dance	Ripple Current	
Сар.(µF)	ΦDxL (mm)	20°C 100KHz	-10°C 100KHz	(mArms) 105℃, 100KHz	Cap.(μF)	ФDxL (mm)	20°C 100KHz	-10°C 100KHz	(mArms) 105°C, 100KHz
33	5x11	1.160	4.600	215	22	5x11	1.400	5.600	180
56	6.3x11	0.440	1.740	340	56	6.3x11	0.600	2.400	295
150	8x11.5	0.320	1.520	640	100	8x11.5	0.340	1.360	555
220	10x12.5	0.160	0.640	865	120	8x11.5	0.330	1.200	580
330	10x16	0.100	0.480	1210	150	10x12.5	0.240	0.960	760
470	10x20	0.080	0.360	1400	180	10x16	0.189	0.820	910
560	13x20	0.084	0.340	1650	220	10x16	0.168	0.680	1050
680	13x20	0.070	0.240	1900	330	10x20	0.120	0.450	1390
1000	13x25	0.054	0.178	2230	470	13x20	0.090	0.300	1660
1200	16x20	0.049	0.152	2530	560	13x25	0.068	0.220	1950
1500	13x35	0.040	0.130	2880	680	13X30	0.065	0.210	2180
1800	16x25	0.042	0.120	2930	820	16x20	0.068	0.200	2210
2200	18x25	0.038	0.100	3140	1000	18x20	0.052	0.180	2490
2700	18x32	0.032	0.092	4170	1200	18x25	0.045	0.140	2740
3300	18x36	0.027	0.078	4220	1500	16x36	0.038	0.114	3150
3900	18x40	0.024	0.064	4280	1800	18x32	0.042	0.114	3635
					2200	18x36	0.034	0.092	3680
					2700	18x40	0.028	0.076	3800

WV(vdc)			63		WV(vdc)	100					
Parameter		Imped	dance	Ripple Current (mArms) 105℃, 100KHz	Parameter		Impedance		Ripple Current		
Cap.(µF)	ФDxL (mm)	20°C 100KHz	-10°C 100KHz		Cap.(μF)	ФDxL (mm)	20°C 100KHz	-10°C 100KHz	(mArms) 105℃, 100KHz		
15	5x11	3.600	14.600	62	6.8	5x11	3.600	14.600	62		
33	6.3x11	2.000	8.200	126	15	6.3x11	2.000	8.200	126		
56	8x11.5	1.000	4.400	260	47	8x11.5	0.680	2.800	325		
82	10x12.5	0.720	3.400	325	68	10x16	0.500	2.400	400		
120	10x16	0.500	2.400	400	82	10x20	0.340	1.520	518		
180	10x20	0.340	1.520	518	100	10x20	0.330	1.370	565		
220	10x20	0.330	1.370	568	120	13x20	0.260	1.040	765		
330	13x25	0.192	0.720	875	150	13x20	0.220	1.040	895		
470	16x20	0.154	0.640	1130	180	13x25	0.192	0.720	875		
560	16x25	0.124	0.460	1350	220	16x20	0.154	0.640	1130		
680	18x20	0.144	0.540	1300	330	18x20	0.144	0.540	1300		
820	18x25	0.104	0.380	1560	470	18x32	0.084	0.300	1720		
1000	18x32	0.084	0.300	1720	560	18x36	0.072	0.260	2130		
1200	18x36	0.072	0.260	1890	680	18x36	0.072	0.260	1890		
1500	18x40	0.064	0.240	2470	820	18x40	0.064	0.240	2470		