

SL series

- Standard product, for general purposes.
- RoHS Compliance.
- 標準品，普通用途。



SPECIFICATIONS

Items 項目	Characteristics 特性										
Capacitance Tolerance 靜電容量誤差	±20% (120Hz, 20°C)										
Operating Temperature Range 適用溫度範圍	-40 ~ +85°C			-40 ~ +85°C				-25 ~ +85°C			
Rated Voltage Range 工作電壓範圍	6.3 ~ 100V			160 ~ 250V				350 ~ 500V			
Leakage Current 洩漏電流	I ≤ 0.01CV or 3(µA), which is greater. (After 2 minutes application of working voltage)					I ≤ 0.03CV + 20(µA), (After 3 minutes application of working voltage)					
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C										
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	350~500
	tan δ (Max)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08	0.20	0.25
When nominal capacitance exceeds 1000µF, add 0.02 to the value above for each 1000µF increase. (20°C · 120Hz)											
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz.										
	Rated Voltage (V)	6.3	10	16	25	35	50~100	160~250	350~400	450~500	
	Z (-25°C) / Z (20°C)	5	4	3	2	2	2	3	6	8	
	Z (-40°C) / Z (20°C)	12	10	8	6	4	3	4	-	-	
Load Life 負荷壽命	2000hours, with application of working voltage at 85°C										
	Capacitance Change	Within ±20% of Initial Value									
	tan δ	200% or less of Initial Specified Value									
	Leakage Current	Initial Specified Value or less									
Shelf Life 放置壽命	1,000hours, no voltage applied, at 85°C. After Test: UR to be applied for 30 minutes, 24 to 48hours before measurement.										
	Capacitance Change	Within ±20% of Initial Value									
	tan δ	200% or less of Initial Specified Value									
	Leakage Current	Initial Specified Value or less									
Standards 參照標準	JIS C 5101-4-1 and JIS C 5101-2										

PERMISSIBLE RIPPLE CURRENT

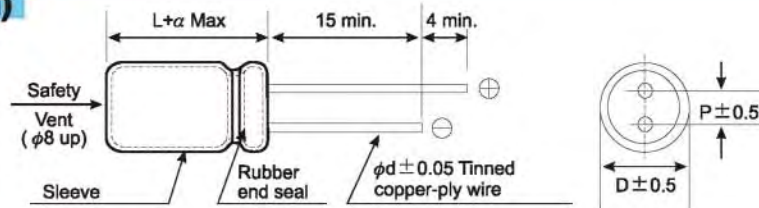
Frequency Coefficient

WV(V)	Capacitance (µF)	Frequency (Hz)			
		50	120	1K	≥10K
≤ 100	< 100	0.75	1.00	1.57	2.00
	100 ~ 470	0.80	1.00	1.34	1.50
	> 470	0.85	1.00	1.10	1.15
≥ 160	0.1 ~ 220	0.80	1.00	1.40	1.60
	330 ~ 1000	0.90	1.00	1.13	1.15

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DIMENSIONS (mm)



φ D	5	6.3	8	10	13	16	18	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	12.5
φ d	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	1.0

α	(L < 16)	1.0
	(L ≥ 16)	2.0

STANDARD RATINGS

DxL (mm); R.C.: (mA rms) at 85°C, 120Hz.

Cap (μF)	WV(V) (Code)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		100 (2A)	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
0.1~0.68												5x11	12	5x11	19	5x11	20
1												5x11	18	5x11	24	5x11	26
2.2												5x11	34	5x11	43	5x11	45
3.3												5x11	42	5x11	48	5x11	49
4.7								5x11	42	5x11	43	5x11	48	5x11	61	5x11	64
10						5x11	61	5x11	66	5x11	73	5x11	78	5x11	85	6.3x11	89
22		5x11	78	5x11	82	5x11	90	5x11	97	5x11	116	5x11	121	5x11	126	8x12	151
33		5x11	97	5x11	101	5x11	109	5x11	114	5x11	139	6.3x11	151	6.3x11	169	10x13	204
47		5x11	116	5x11	123	5x11	145	5x11	157	6.3x11	169	6.3x11	182	8x12	218	10x16	266
68		5x11	151	5x11	163	6.3x11	179	6.3x11	196	8x12	206	8x12	249	8x12	278	10x20	315
100		5x11	168	5x11	218	6.3x11	223	6.3x11	230	8x12	278	8x12	303	8x14	363	10x20	459
220		6.3x11	290	6.3x11	303	6.3x11	363	8x12	387	10x13	448	10x16	532	10x16	593	13x25	726
330		6.3x11	363	6.3x11	399	8x12	436	8x14	508	10x16	593	10x20	702	10x20	823	16x26	907
470		8x12	460	8x12	484	8x12	569	10x16	653	10x16	774	13x21	920	13x21	1065	16x32	1113
1000		10x13	702	10x13	762	10x16	956	10x20	1150	13x21	1331	13x25	1634	16x26	1755	18x40	1573
1500		10x16	788	10x20	823	10x20	1101	13x21	1367	13x25	1597	16x32	1925	18x32	2310	22x40	2145
2200		10x16	1150	10x20	1331	13x21	1634	13x25	1876	16x26	2178	16x36	2541	18x35	2783	25x50	2432
3300		10x20	1513	13x21	1694	13x25	2057	16x26	2118	16x32	2686	18x35	3037	22x40	3267		
4700		13x21	1815	13x25	2178	16x26	2420	16x32	2614	18x35	3110	22x40	3630	22x50	4114		
6800		13x25	2299	16x26	2481	16x32	2783	18x35	3207	22x40	3884	22x50	4235	25x50	4719		
10000		16x26	2481	16x36	3025	18x35	3485	22x40	4380	22x50	4719	25x50	4840				
15000		16x36	3243	18x35	3775	22x40	4659	22x50	5082	25x50	5203						
22000		18x40	3896	22x40	4489	22x50	5336	25x50	5445								
33000		22x50	4719	22x50	5445	25x50	5808										

Cap (μF)	WV(V) (Code)	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)		500 (2H)	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
0.47		5x11	15	5x11	17	5x11	19	5x11	19	6.3x11	16	6.3x11	16	6.3x11	16
1		5x11	20	5x11	24	6.3x11	26	8x12	28	8x12	23	8x12	25	8x12	25
2.2		6.3x11	30	6.3x11	35	8x12	36	8x12	37	10x13	35	10x13	36	10x13	32
3.3		8x12	42	8x12	50	8x12	55	10x13	56	10x13	45	10x16	50	10x16	45
4.7		8x12	56	8x12	62	10x13	67	10x16	70	10x16	55	10x20	62	10x20	55
10		10x13	97	10x16	105	10x16	110	10x20	120	13x21	85	13x21	93	13x21	65
22		10x16	157	10x20	165	13x21	195	13x21	210	16x26	160	16x26	172	16x26	135
33		10x20	230	13x21	238	13x21	245	16x26	280	16x32	195	16x36	210	16x36	155
47		13x21	290	13x21	310	13x21	320	16x36	380	16x36	275	18x40	285	18x40	235
100		16x26	520	16x26	550	16x32	570	18x40	600	22x35	500	22x40	520	22x40	450
220		16x36	860	22x30	980	22x30	1070	22x50	1210	25x50	970				
330		18x40	1210	22x35	1280	22x35	1320								
470		22x40	1320	22x50	1360	25x50	1500								
1000		22x50	1720												

※ 13mm may be replaced by 12.5mm upon customer's request.