

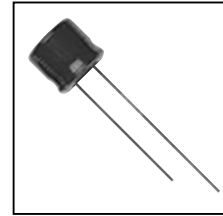
RADIAL TYPE

SL

Series 7mmL 105°C, Low Impedance



- High ripple current, low impedance series with 7mm height.

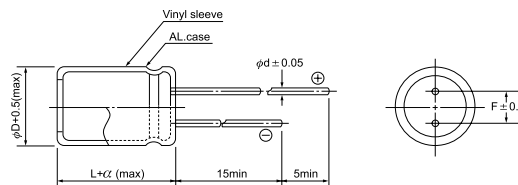


SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	$I \leq 0.01CV$ or 3 (μA)				I : Leakage Current (μA)			
	*Whichever is greater after 3 minutes				C : Rated Capacitance (μF)			
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	
	S.V.	8	13	20	32	44	63	
Dissipation Factor ($\tan \delta$) (120Hz 20°C)	W.V.	6.3	10	16	25	35	50	
	$\tan \delta$	0.22	0.19	0.16	0.14	0.12	0.10	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16	25	35	50	
	-25°C / +20°C	3	3	3	2	2	2	
	-55°C / +20°C	6	6	6	4	4	4	
Load Life	After 1000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \cong rate working voltage)							
	Capacitance Change	$\cong \pm 20\%$ of initial value						
	Dissipation Factor	$\cong 200\%$ of initial specified value						
	Leakage current	\cong initial specified value						
Shelf Life	At +105°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment)							

DIMENSIONS (mm)

ϕD	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45	0.45	0.45	0.50
α	1.0	1.0	1.0	1.0



RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	65	75	85	95	105
Multiplier	2.12	1.92	1.69	1.50	1.00

Frequency(Hz)	60	120	400	1k	10k	100k
W.V.	Multiplier					
6.3~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50V	0.36	0.46	0.70	0.88	0.94	1.00



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● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 100kHz
 Max ripple current : mA(rms) 105°C 100kHz

V(Code)		6.3 (0J)				10 (1A)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
15	150					→	4x7	1.592	4.775	80
22	220		4x7	1.191	3.572	80	4x7	1.184	3.552	95
27	270		4x7	1.051	3.153	90	4x7	1.045	3.135	100
33	330		4x7	0.926	2.778	100	4x7	0.921	2.763	110
39	390		4x7	0.839	2.518	110	5x7	0.835	2.505	140
47	470		5x7	0.629	1.886	130	5x7	0.568	1.705	160
56	560		5x7	0.561	1.682	150	5x7	0.507	1.521	170
68	680		5x7	0.489	1.467	160	6.3x7	0.442	1.326	210
82	820		6.3x7	0.450	1.351	200	6.3x7	0.407	1.222	230
100	101		6.3x7	0.406	1.219	220	6.3x7	0.367	1.102	260
120	121		6.3x7	0.346	1.039	250	6.3x7	0.313	0.939	280
150	151		6.3x7	0.283	0.850	280	8x7	0.256	0.768	370
180	181		8x7	0.246	0.739	350				
220	221		8x7	0.210	0.630	390				

V(Code)		16 (1C)				25 (1E)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
10	100		4x7	1.416	4.249	75	4x7	1.332	3.995	95
15	150		4x7	1.039	3.116	90	4x7	0.977	2.930	110
18	180		4x7	0.897	2.692	100	5x7	0.851	2.552	140
22	220		4x7	0.772	2.317	100	5x7	0.726	2.179	150
27	270		5x7	0.682	2.046	130	6.3x7	0.641	1.923	190
33	330		5x7	0.601	1.802	140	6.3x7	0.565	1.695	210
39	390		6.3x7	0.545	1.634	180	6.3x7	0.512	1.537	220
47	470		6.3x7	0.482	1.446	190	6.3x7	0.453	1.360	250
56	560		6.3x7	0.430	1.290	210	8x7	0.404	1.213	310
68	680		6.3x7	0.375	1.125	230	8x7	0.352	1.057	340
82	820		6.3x7	0.345	1.036	260				
100	101		6.3x7	0.312	0.935	280				

V(Code)		35 (1V)				50 (1H)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
4.7	4R7		4x7	2.760	8.280	70	4x7	2.758	8.274	90
6.8	6R8		4x7	2.385	7.154	80	5x7	2.383	7.149	110
10	100		5x7	0.998	2.994	110	6.3x7	0.499	1.496	150
15	150		5x7	0.732	2.195	140	6.3x7	0.366	1.097	180
18	180		6.3x7	0.638	1.913	170	6.3x7	0.319	0.956	200
22	220		6.3x7	0.544	1.633	180	8x7	0.272	0.816	240
27	270		6.3x7	0.480	1.441	200	8x7	0.240	0.720	270
33	330		8x7	0.423	1.270	250	8x7	0.212	0.635	290
39	390		8x7	0.384	1.151	270				
47	470		8x7	0.340	1.019	300				

All blank voltage on sleeve marking is the same voltage as" → "point to.