

LKP Snap-In, General Purpose, 105°C

Features

- Highly reliable capacitors that with high ripple current
- Two or three dimensions with the same ratings.
- Terminal spacing at 10 mm for printed circuit board plug in.
- Aluminum case designed explosion-proof vent.
- Best for switching power supply

Specifications

Item	Performance Characteristics													
Operating Temperature Range	-40 to +105°C							-25 to +105°C						
Rated voltage Range	10 to 100 VDC							160 to 450 VDC						
Capacitance Range	330 to 68000 μ F							47 to 2200 μ F						
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)													
Leakage Current (+20°C, max.)	≤ 0.02 CV after 5 minutes with rated working voltage applied..													
Dissipation Factor (Tan δ at 120Hz, 20°C)	Less than the value under table (%) (+20°C, at 120Hz)													
	μ F \ W.V.	10-16		25-35		50-63		80-100		160-250		315- 500		
	47 ~ 390	-		-		-		-		15		20		
	470 ~ 3900	25		20		20		20		15		20		
	4700 ~ 8200	35		30		30		25		-		-		
	10000 ~ 22000	40		35		30		-		-		-		
	27000 ~ 47000	45		40		35		-		-		-		
Low Temperature Characteristics (at 120Hz)	Impedance ratio max													
	Rated Voltage(V)	10	16	25	35	50	63	100	160	200	250	350	400	450
	Z (-25°C)/Z(+20°C)	5	5	5	4	4	4	4	4	4	4	4	8	8
	Z (-40°C)/Z(+20°C)	15	15	15	12	12	12	12	-	-	-	-	-	-
Load Life Test	Test conditions Duration time :2000Hrs Ambient temperature:+105°C Applied voltage: Rated DC working voltage After test requirements at+20°C Capacitance change: $\pm 20\%$ of the initial measured value Dissipation Factor: $\leq 200\%$ of the initial specified value Leakage current: $\leq$ The initial specified value													
	Shelf Life Test	Test conditions Duration time :1000Hrs Ambient temperature:+105°C Applied voltage: None After test requirements at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.												

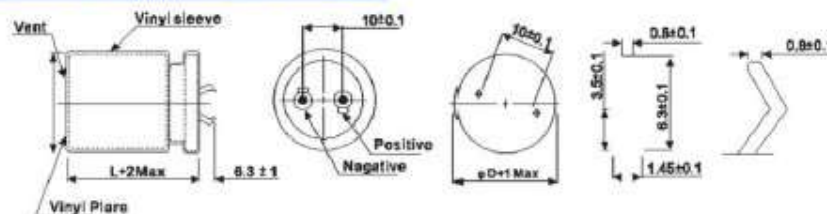
Multiplier for Ripple Current VS. Frequency

CAP(μ F)/Hz	50(60)	120	400	1K	10K	50-100K
10<CAP $\leq$ 100	0.8	1.0	1.23	1.36	1.48	1.53
100<CAP $\leq$ 1000	0.8	1.0	1.16	1.25	1.35	1.38
1000<CAP	0.8	1.0	1.11	1.17	1.25	1.28

Multiplier for Ripple Current VS. Temperature

Temperature (°C)	45	60	85	95	105
Multiplier	3.10	1.90	1.40	1.25	1.00

Diagram of Dimensions: (Unit: mm)





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LKP Snap-In, General Purpose, 105°C

Case Size		$\phi D \times L$ (mm)															
μF	W.V. (S.V.)	10{13}								16{20}							
		22		25		30		35		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
3300	-	-	-	-	-	-	-	-	-	22x25	1.17	-	-	-	-	-	-
4700	22x25	1.24	-	-	-	-	-	-	-	22x30	1.53	25x25	1.53	-	-	-	-
6800	22x25	1.56	25x25	1.56	-	-	-	-	-	22x30	2.02	25x25	2.02	30x25	2.02	-	-
8200	22x25	2.04	-	-	-	-	-	-	-	22x30	2.20	-	-	-	-	-	-
10000	22x30	2.20	25x25	2.20	30x25	2.20	-	-	-	22x35	2.79	25x30	2.79	30x25	2.79	-	-
12000	22x35	2.34	-	-	-	-	-	-	-	22x35	3.05	25x30	3.05	30x25	3.05	-	-
15000	22x35	2.76	25x30	2.76	30x25	2.76	-	-	-	22x50	3.24	25x40	3.24	30x35	3.24	35x30	3.24
18000	22x35	2.94	25x30	2.94	-	-	-	-	-	22x50	3.51	25x45	3.51	30x35	3.51	35x30	3.51
22000	22x40	3.12	25x35	3.12	30x30	3.12	35x25	3.12	-	-	-	25x50	3.80	30x40	3.80	35x30	3.80
27000	22x45	3.48	25x35	3.48	30x30	3.48	35x25	3.48	-	-	-	25x50	4.20	30x45	4.20	35x35	4.20
33000	-	-	25x45	3.72	30x35	3.72	35x30	3.72	-	-	-	-	-	30x45	4.40	35x35	4.40
39000	-	-	25x50	4.10	30x40	4.10	35x30	4.10	-	-	-	-	-	30x50	5.10	35x40	5.10
47000	-	-	-	-	30x45	4.38	35x35	4.38	-	-	-	-	-	-	-	35x45	5.70
56000	-	-	-	-	30x50	5.00	35x40	5.00	-	-	-	-	-	-	-	35x50	6.30
68000	-	-	-	-	-	-	35x50	5.50	-	-	-	-	-	-	-	-	-

•Ripple Current(A,rms)at 105°C 120Hz

μF	W.V. (S.V.)	25{32}								35{44}							
		22		25		30		35		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1500	-	-	-	-	-	-	-	-	-	22x25	1.00	-	-	-	-	-	-
2200	22x25	1.03	-	-	-	-	-	-	-	22x30	1.35	25x25	1.35	-	-	-	-
3300	22x25	1.48	25x25	1.48	-	-	-	-	-	22x30	1.84	25x25	1.84	30x25	1.84	-	-
3900	22x25	1.65	-	-	-	-	-	-	-	22x30	2.10	-	-	-	-	-	-
4700	22x30	1.92	25x25	1.92	30x25	1.92	-	-	-	22x35	2.30	25x30	2.30	30x25	2.30	-	-
5600	22x30	2.25	-	-	-	-	-	-	-	22x35	2.50	25x30	2.50	30x25	2.50	-	-
6800	22x30	2.40	25x25	2.40	30x25	2.40	-	-	-	22x40	2.70	25x35	2.70	30x30	2.70	35x25	2.70
8200	22x35	2.80	25x30	2.80	30x25	2.80	-	-	-	22x50	3.00	25x40	3.00	30x30	3.00	35x25	3.00
10000	22x40	3.10	25x35	3.10	30x30	3.10	35x25	3.10	-	-	-	25x45	3.30	30x35	3.30	35x30	3.30
12000	22x45	3.40	25x40	3.40	30x30	3.40	35x25	3.40	-	-	-	25x50	3.60	30x40	3.60	35x30	3.60
15000	-	-	25x45	3.80	30x35	3.80	35x30	3.80	-	-	-	-	-	30x45	3.90	35x35	3.90
18000	-	-	25x50	4.10	30x40	4.10	35x30	4.10	-	-	-	-	-	-	-	35x40	4.50
22000	-	-	-	-	30x45	4.50	35x35	4.50	-	-	-	-	-	-	-	35x50	5.10
27000	-	-	-	-	-	-	35x45	5.00	-	-	-	-	-	-	-	-	-
33000	-	-	-	-	-	-	35x50	5.70	-	-	-	-	-	-	-	-	-

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ΦD x L (mm)

W.V. (S.V.) μF	50(63)								63(79)							
	22		25		30		35		22		25		30		35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
680	-	-	-	-	-	-	-	-	22x25	0.90	-	-	-	-	-	-
1000	22x25	0.84	-	-	-	-	-	-	22x25	1.20	25x25	1.20	-	-	-	-
1200	22x25	0.94	-	-	-	-	-	-	22x25	1.40	-	-	-	-	-	-
1500	22x30	1.10	25x25	1.10	-	-	-	-	22x30	1.50	25x25	1.50	30x25	1.50	-	-
1800	22x30	1.54	-	-	-	-	-	-	22x30	1.70	25x25	1.70	-	-	-	-
2200	22x30	1.65	25x25	1.65	30x25	1.65	-	-	22x35	1.80	25x30	1.80	30x25	1.80	-	-
2700	22x35	1.80	25x30	1.80	-	-	-	-	22x40	2.07	25x35	2.07	30x25	2.07	-	-
3300	22x35	2.10	25x30	2.10	30x25	2.10	-	-	22x50	2.48	25x40	2.48	30x30	2.48	35x25	2.48
3900	22x40	2.30	25x35	2.30	30x30	2.30	-	-	-	-	25x45	2.70	30x35	2.70	35x30	2.70
4700	22x45	2.60	25x40	2.60	30x30	2.60	35x25	2.60	-	-	25x50	3.00	30x40	3.00	35x30	3.00
5600	22x50	2.90	25x45	2.90	30x35	2.90	35x30	2.90	-	-	-	-	30x45	3.30	35x35	3.30
6800	-	-	25x50	3.20	30x40	3.20	35x30	3.20	-	-	-	-	30x50	3.60	35x40	3.60
8200	-	-	-	-	30x45	3.58	35x35	3.58	-	-	-	-	-	-	35x45	4.00
10000	-	-	-	-	-	-	35x40	4.00	-	-	-	-	-	-	35x50	4.50
12000	-	-	-	-	-	-	35x45	4.50	-	-	-	-	-	-	-	-
15000	-	-	-	-	-	-	35x50	4.80	-	-	-	-	-	-	-	-

•Ripple Current(A,rms)at 105°C 120Hz

W.V. (S.V.) μF	80(100)								100(125)							
	22		25		30		35		22		25		30		35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
330	-	-	-	-	-	-	-	-	22x25	0.70	-	-	-	-	-	-
470	22x25	0.70	-	-	-	-	-	-	22x30	0.90	25x25	0.90	-	-	-	-
560	22x30	0.80	-	-	-	-	-	-	22x30	1.10	25x25	1.10	-	-	-	-
680	22x30	0.90	25x25	0.90	-	-	-	-	22x30	1.20	25x25	1.20	30x25	1.20	-	-
820	22x30	1.20	25x30	1.20	-	-	-	-	22x30	1.40	25x25	1.40	30x25	1.40	-	-
1000	22x35	1.30	25x30	1.30	30x25	1.30	-	-	22x35	1.65	25x30	1.65	30x25	1.65	-	-
1200	22x35	1.46	25x30	1.46	30x30	1.46	-	-	22x40	1.80	25x35	1.80	30x30	1.80	-	-
1500	22x40	1.74	25x35	1.74	30x30	1.74	-	-	22x45	2.10	25x40	2.10	30x30	2.10	35x25	2.10
1800	22x45	1.80	25x40	1.80	30x30	1.80	-	-	-	-	25x40	2.30	30x35	2.30	35x30	2.30
2200	22x50	2.10	25x45	2.10	30x35	2.10	35x30	2.10	-	-	25x50	2.60	30x40	2.60	35x30	2.60
3300	-	-	25x55	2.60	30x50	2.60	35x40	2.60	-	-	-	-	30x55	3.20	35x45	3.20
4700	-	-	-	-	30x50	3.30	35x40	3.30	-	-	-	-	-	-	35x50	3.90
5600	-	-	-	-	-	-	35x45	3.90	-	-	-	-	-	-	-	-
6800	-	-	-	-	-	-	35x50	4.10	-	-	-	-	-	-	-	-

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ΦD x L (mm)

W.V. (S.V.) μF	160{200}								200{250}							
	22		25		30		35		22		25		30		35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
100	-	-	-	-	-	-	-	-	22x25	0.38	-	-	-	-	-	-
150	22x25	0.48	-	-	-	-	-	-	22x30	0.54	25x25	0.54	-	-	-	-
220	22x25	0.65	-	-	-	-	-	-	22x30	0.85	25x25	0.85	30x25	0.85	-	-
330	22x30	0.98	25x25	0.98	30x25	0.98	-	-	22x35	1.21	25x30	1.21	30x25	1.21	-	-
470	22x35	1.21	25x30	1.21	-	-	-	-	22x40	1.40	25x40	1.40	30x30	1.40	35x25	1.40
560	22x40	1.40	25x35	1.40	30x30	1.40	-	-	22x50	1.50	25x40	1.50	30x35	1.50	-	-
680	22x45	1.60	25x40	1.60	30x35	1.60	35x30	1.60	22x55	1.70	25x50	1.70	30x35	1.70	-	-
820	-	-	25x45	1.85	30x35	1.85	35x30	1.85	-	-	25x55	2.00	30x40	2.00	35x35	2.00
1000	-	-	25x50	2.00	30x40	2.00	35x35	2.00	-	-	-	-	30x50	2.20	35x40	2.20
1200	-	-	25x55	2.20	30x45	2.20	35x35	2.20	-	-	-	-	30x50	2.40	35x40	2.40
1500	-	-	-	-	30x50	2.40	35x40	2.40	-	-	-	-	-	-	35x50	2.60
1800	-	-	-	-	30x50	2.60	35x40	2.60	-	-	-	-	-	-	35x50	2.90
2200	-	-	-	-	-	-	35x50	2.90	-	-	-	-	-	-	35x52	3.2

•Ripple Current(A,rms)at 105°C 120Hz

W.V. (S.V.) μF	250{300}								350{400}							
	22		25		30		35		22		25		30		35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
82	-	-	-	-	-	-	-	-	22x25	0.60	-	-	-	-	-	-
100	22x25	0.44	-	-	-	-	-	-	22x30	0.70	25x25	0.70	-	-	-	-
150	22x25	0.70	25x25	0.70	30x25	0.70	-	-	22x40	0.85	25x35	0.85	30x25	0.85	-	-
220	22x35	1.00	25x30	1.00	30x25	1.00	-	-	22x50	1.15	25x45	1.15	30x35	1.15	35x25	1.15
330	22x40	1.28	25x35	1.28	30x30	1.28	35x25	1.28	-	-	-	-	30x45	1.45	35x35	1.45
470	-	-	25x45	1.76	30x35	1.76	35x30	1.76	-	-	-	-	-	-	35x45	1.85
560	-	-	25x50	1.80	30x40	1.80	35x30	1.80	-	-	-	-	-	-	35x50	2.00
680	-	-	-	-	30x45	2.10	35x35	2.10	-	-	-	-	-	-	-	-
820	-	-	-	-	30x50	2.30	35x40	2.30	-	-	-	-	-	-	-	-
1000	-	-	-	-	-	-	35x45	2.50	-	-	-	-	-	-	-	-
1200	-	-	-	-	-	-	35x50	2.80	-	-	-	-	-	-	-	-

•Ripple Current(A,rms)at 105°C 120Hz

W.V. (S.V.) μF	400{450}								450{500}							
	22		25		30		35		22		25		30		35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
47	22x25	0.40	-	-	-	-	-	-	22x30	0.45	25x25	0.45	-	-	-	-
56	22x30	0.50	25x25	0.50	-	-	-	-	22x30	0.55	25x25	0.55	-	-	-	-
68	22x30	0.56	25x25	0.56	30x25	0.56	-	-	22x35	0.60	25x30	0.60	30x25	0.60	-	-
82	22x35	0.65	25x25	0.65	30x25	0.65	-	-	22x35	0.72	25x30	0.72	30x25	0.72	-	-
100	22x35	0.75	25x30	0.75	30x25	0.75	-	-	22x40	0.85	25x30	0.85	30x30	0.85	-	-
150	22x45	0.90	25x35	0.90	30x30	0.90	-	-	22x50	1.10	25x40	1.10	30x35	1.10	-	-
220	-	-	25x45	1.21	30x40	1.21	35x30	1.21	-	-	-	-	30x45	1.35	35x35	1.35
330	-	-	-	-	30x50	1.50	35x40	1.50	-	-	-	-	-	-	35x45	1.64
470	-	-	-	-	-	-	35x45	1.90	-	-	-	-	-	-	35x55	2.10
560	-	-	-	-	-	-	35x50	2.13	-	-	-	-	-	-	35x60	2.30
680	-	-	-	-	-	-	35x55	2.37	-	-	-	-	-	-	-	-
820	-	-	-	-	-	-	35x60	2.60	-	-	-	-	-	-	-	-

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