



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 μF	47 to 2200 μF												
Capacitance Tolerance	±20%(120Hz, +20°C)													
Leakage Current (+20°C, max.)	I ≤ 0.02 CV after 5 minutes with rated working voltage applied..													
Dissipation Factor (Tanδ at 120Hz, 20°C)	Less than the value under table (%) (+20°C, at 120Hz)													
	μF \ 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	-	-	-							
56000 ~ 68000	50	45	-	-	-	-								
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: ±≤20% of the initial measured value Dissipation Factor: ≤200% of the initial specified value Leakage current: ≤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.													

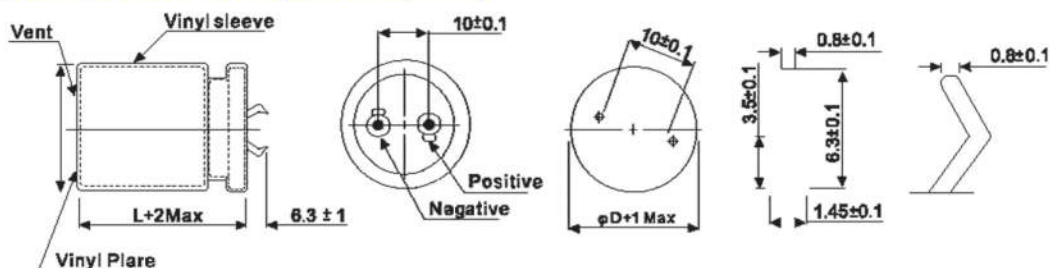
Multiplier for Ripple Current VS, Frequency

CAP(μF)/Hz	50(60)	120	400	1K	10K	50-100K
10<CAP≤100	0.8	1.0	1.23	1.36	1.48	1.53
100<CAP≤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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Case Size

φD x L (mm)

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

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	-	-	-	-	-	-	-	-

•Ripple Current(A,rms)at 105°C 120Hz

SNAP-IN



LKP Snap-In, General Purpose, 105°C

φD x L (mm)

W.V. {S.V.}	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.}	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	-	-	-	-	-	-	-	-

•Ripple Current(A,rms)at 105°C 120Hz

SNAP-IN



LKP Snap-In, General Purpose, 105°C

φD x L (mm)

W.V. {S.V.}	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.}	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
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.}	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	-	-	-	-	-	-	-	-

•Ripple Current(A,rms)at 105°C 120Hz

SNAP-IN