



# 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													
Operating Temperature Range	-40°C to +105°C	-25°C to +105°C												
Rated voltage Range	10 to 100 VDC	160 to 450 VDC												
Capacitance Range	330 to 68000 uF	47 to 2200 uF												
Capacitance Tolerance	±20% (at 120Hz, 20°C)													
Leakage Current (at 20°C)	I ≤ 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 (%)													
	uF \ W V DC	10~16	25~35	50~63	80~100	160~250	315~500							
	47 ~ 390	-	-	-	15	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	-	-	-	-								
	(+20°C, at 120Hz)													
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.													

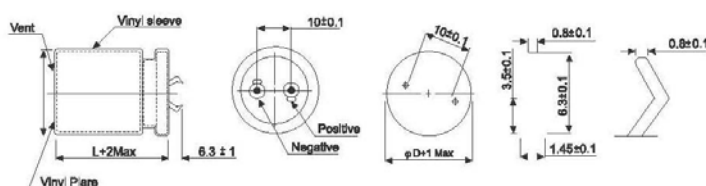
## Multiplier for Ripple Current vs. Frequency

CAP(uF) \ HZ		50(60)	120	400	1K	10K	50-100K
Multiplier	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	2.10	1.90	1.40	1.25	1.00

## Diagram of Dimensions: (Unit: mm)





# LKP Snap-In, General Purpose, 105°C

Case Size

∅ D x L (mm)

uF	WV {SV}	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								

uF	WV {SV}	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	1.26						
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



# LKP Snap-In, General Purpose, 105°C

Case Size

Ø D x L (mm)

WV {SV}	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								

WV {SV}	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



# LKP Snap-In, General Purpose, 105°C

## Case Size

∅ D x L (mm)

WV {SV}	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								

WV {SV}	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								

WV {SV}	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