

LV Series

Features

- ◆ 85°C standard, case diameter ϕ 4~ ϕ 10mm
- ◆ Reflow soldering is available
- ◆ Available for high density mounting
- ◆ For detail specifications, please refer to Engineering Bulletin No. E130
- ◆ RoHS Compliant



SMD

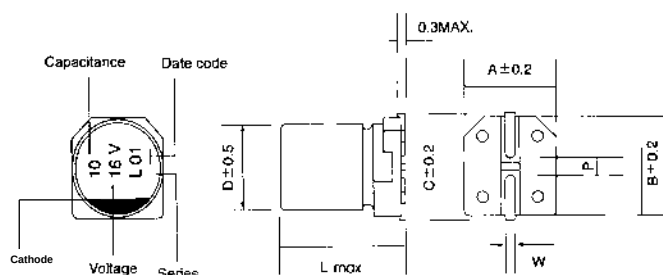
Specifications

Item	Performance Characteristics								
Operating Temperature Range	-40~ +85℃								
Rated Voltage Range	4~50 VDC								
Capacitance Range	0.1 to 1500 μ F								
Capacitance Tolerance	± 20%(120Hz,+20℃)								
Leakage Current (+20℃,max.)	I≤0.01 CV or 3 (μ A) After 2 minutes, whichever is greater measured with rated working voltage applied								
Dissipation Factor (tan δ , at 20℃ , 120Hz)	Rated voltage(VDC)		4	6.3	10	16	25	35	50
	D.F.(%) max	φ 4~6.3	42	30	22	18	16	14	14
		φ 8~10	45	34	26	20	16	14	14
Low Temperature Characteristics (at 120Hz)	Impedance ratio max								
	Rated voltage(VDC)		4	6.3	10	16	25	35	50
	Z-25℃／Z+20℃		7	4	3	2	2	2	2
	Z-40℃／Z+20℃		15	8	8	4	4	3	3
Load Life	Test conditions Duration time :2000 Hrs Ambient temperature :+85℃ Applied voltage :Rated DC working voltage After test requirement at +20℃: Capacitance change :Within ± 25% of the initial value Dissipation factor :Not more than 200% of specified value Leakage current :Not more than the specified value								
Shelf Life	Test conditions Duration time :1000 Hrs Ambient temperature :+85℃ Applied voltage :None After test requirement at +20℃ : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.								
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250℃for 30 seconds. After removing form the hot plate and restored at room temperature, they meet the characteristic requirements listed under.								
	Leakage current		Less than specified value						
	Capacitance change		Within ± 10% of initial value						
	tan δ		Less than specified value						

Multiplier for Ripple Current vs. Frequency

CAP(μ F) \ Frequency(Hz)	60(50)	120	500	1K	$\geq$ 10K
$0.1 \leq \text{CAP} \leq 100 \mu$ F	0.8	1.0	1.20	1.30	1.50
$100 < \text{CAP} \leq 1500 \mu$ F	0.8	1.0	1.10	1.15	1.20

Diagram of Dimensions:(unit:mm)



ϕ D	L	A	B	C	W	P
4	5.5	4.3	4.3	4.9	0.5~0.8	1.0
5	5.5	5.3	5.3	5.9	0.5~0.8	1.4
6.3	5.5	6.6	6.6	7.2	0.5~0.8	2.2
6.3	7.7	6.6	6.6	7.2	0.5~0.8	2.2
8	6.5	8.3	8.3	9.0	0.5~0.8	2.3
8	10.5	8.3	8.3	9.0	0.7~1.1	3.1
10	10.5	10.3	10.3	11.0	0.7~1.1	4.5

Case Size

WV (SV) Cap(μF)		4 (5)		6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1														4X5.5	1.0
0.22														4X5.5	2.0
0.33														4X5.5	2.8
0.47														4X5.5	4.0
1														4X5.5	8.4
2.2														4X5.5	14
3.3														4X5.5	17
4.7										4X5.5	18	4X5.5	18	4X5.5	22
10						4X5.5	21	4X5.5	23	4X5.5	27	4X5.5	29	6.3X5.5	35
22				4X5.5	29	4X5.5	33	4X5.5	37	5X5.5	40	5X5.5	45	6.3X7.7	75
						5X5.5	37			6.3X5.5	40	6.3X5.5	48	8X6.5	80
33				4X5.5	33	4X5.5	41	5X5.5	45	5X5.5	46	6.3X5.5	58	6.3X7.7	188
				5X5.5	37	5X5.5	43			6.3X5.5	54			8X6.5	200
47	4X5.5	28		4X5.5	40	5X5.5	52	5X5.5	50	6.3X5.5	60	6.3X5.5	65	6.3X7.7	225
				5X5.5	46			6.3X5.5	60			8X6.5	115	8X6.5	240
100	4X5.5	34		5X5.5	70	6.3X5.5	76	6.3X5.5	100	6.3X7.7	150	6.3X7.7	250	8X10.5	300
										8X6.5	160	8X10.5	280		
220	6.3X5.5	61		6.3X7.7	141	6.3X7.7	170	6.3X7.7	185	8X10.5	300	10X10.5	400	10X10.5	450
				8X6.5	150	8X6.5	190	8X10.5	290						
330	6.3X7.7	135		6.3X7.7	197	8X10.5	330	8X10.5	330	10X10.5	450	10X10.5	460		
	8X6.5	145		8X6.5	210										
470	8X6.5	220		8X10.5	380	8X10.5	420	10X10.5	480	10X10.5	460				
	8X10.5	220													
560	8X10.5	242		8X10.5	410	10X10.5	450	10X10.5	500						
680	8X10.5	285		8X10.5	460	10X10.5	480								
1000	10X10.5	370		10X10.5	500	10X10.5	510								
1200	10X10.5	410		10X10.5	510										
1500	10X10.5	470		10X10.5	530										

Ripple Current (mA, rms) at 85°C 120Hz

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