

LVC series 105°C, Miniatured size

Features

- $\Phi 4 \sim \Phi 10$, 105°C, 2000~3000 hours assured
- Ultra minisized
- Available for high density surface mounting
- RoHS compliance

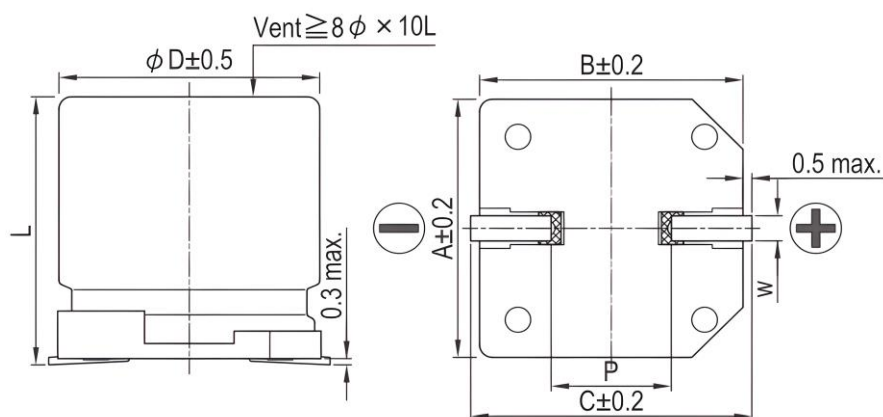
Specifications

Marking color : Black

Item	Performance Characteristics																			
Temperature Range	-55~+105℃																			
Rated Voltage Range	6.3~50Vdc																			
Capacitance Range	10~2200μF																			
Capacitance Tolerance	±20% (120Hz, +20℃)																			
Leakage Current (+20℃,max.)	I≤0.01CV or 3.0 (μA) After 2 minutes, whichever is greater measured with rated working voltage applied																			
Dissipation Factor (tanδ) 120Hz, +20℃	<table><tr><td>Working Voltage(Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>D.F(%)max.</td><td>30</td><td>26</td><td>22</td><td>16</td><td>13</td><td>10</td></tr></table>						Working Voltage(Vdc)	6.3	10	16	25	35	50	D.F(%)max.	30	26	22	16	13	10
	Working Voltage(Vdc)	6.3	10	16	25	35	50													
	D.F(%)max.	30	26	22	16	13	10													
For capacitance>1000μF , Add 2% per another 1000μF (120Hz, +20℃)																				
Low Temperature Characteristics (120Hz)	Impedance ratio max.																			
	Working Voltage(Vdc)		6.3	10	16	25	35	50												
	Impedance Ratio	Z(-25℃)/ Z(+20℃)	4	3	2	2	2	2												
		Z(-40℃)/ Z(+20℃)	8	5	4	3	3	3												
For capacitance>1000μF , Add 0.5 per another 1000μF For Z-25℃/ Z+20℃ ,Add 1.0 per another 1000μF For Z-55℃/ Z+20℃																				
Endurance	Test Time		2000Hrs for φD≤6.3mm 3000 Hrs for φD≥8.0mm																	
	Capacitance Change		Within ±30% of the initial value																	
	D.F.(tanδ)		Less than 300% of the initial specified value																	
	Leakage Current		≤The initial specified value																	
	The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 2000~3000 hours at 105℃.																			
Shelf Life	Capacitance Change		≤±30% of the initial value																	
	D.F.(tanδ)		≤300% of the initial specified value																	
	Leakage Current		≤The initial specified value																	
	After storing the capacitors under no load at 105℃ for 1000 hours and then performing voltage treatment based on JISC 5101-4 clause 4.1 at 20℃.																			
Ripple Current and Frequency Multipliers	Frequency (Hz)		50	120	300	1k	≥10k													
	Multiplier		0.70	1.00	1.17	1.36	1.50													
Others	JISC-5101(IEC 60384)																			

LVC series

Diagram of Dimensions



Lead Spacing and Diameter

Unit:mm

Size code	ϕD	$L \pm 0.5$	A	B	C	W	$P \pm 0.2$
B058	4	5.8	4.3	4.3	5.1	0.5~0.8	1.0
C058	5	5.8	5.3	5.3	5.9	0.5~0.8	1.5
E058	6.3	5.8	6.6	6.6	7.2	0.5~0.8	2.0
E077	6.3	7.7	6.6	6.6	7.2	0.5~0.8	2.0
F105	8.0	10.5	8.3	8.3	9.0	0.7~1.1	3.1
G105	10.0	10.5	10.3	10.3	11.0	0.7~1.1	4.7

Part Numbering System(Example :16V 1000 μ F)

V	L	V	C	1	0	2	M	0	1	6	S	1	0	M	G	1	0	5	1
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Special Request

Size code(G105: 10 $\times$ 10.5)

Marking color : Black

Package Type

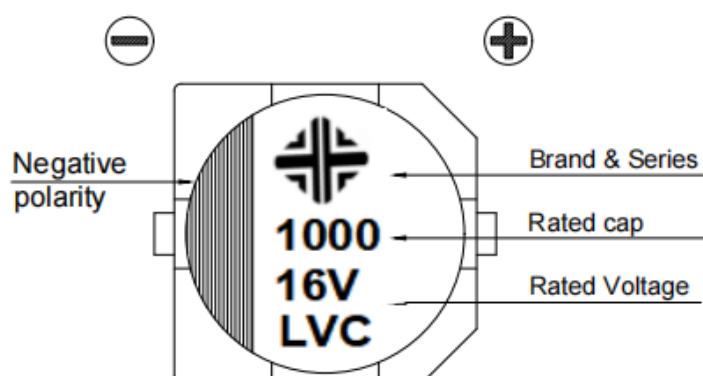
Voltage code(16V)

Capacitance tolerance code(M: $\pm 20\%$)Capacitance code(1000 μ F)

Series code(LVC)

Product type(v-chip)

Marking

 $\phi D \leq 10 \text{ mm}$ 

LVC series

Dimension and Permissible Ripple Current

Dimension : $\phi D \times L$ (mm)
Ripple Current : mA/rms at 120 Hz, 105°C

W(V)	Cap.(μ F)	Size code	$\phi D \times L$	mA/rms	W(V)	Cap.(μ F)	Size code	$\phi D \times L$	mA/rms
6.3	100	B058	4X5.8	75	10	68	B058	4X5.8	75
	220	C058	5X5.8	120		150	C058	5X5.8	120
	330	E058	6.3X5.8	150		220	E058	6.3X5.8	150
	470	E077	6.3X7.7	300		330	E077	6.3X7.7	300
	680	E077	6.3X7.7	300		470	E077	6.3X7.7	300
	1500	F105	8X10.5	420		1000	F105	8X10.5	420
	2200	G105	10X10.5	550		1500	G105	10X10.5	550
16	47	B058	4X5.8	75	25	22	B058	4X5.8	75
	68	C058	5X5.8	120		33	B058	4X5.8	75
	100	C058	5X5.8	120		47	C058	5X5.8	120
	150	E058	6.3X5.8	150		68	C058	5X5.8	120
	220	E058	6.3X5.8	150		100	E058	6.3X5.8	150
	330	E077	6.3X7.7	300		150	E077	6.3X7.7	300
	680	F105	8X10.5	420		220	E077	6.3X7.7	300
	1000	G105	10X10.5	550		470	F105	8X10.5	420
						820	G105	10X10.5	550
35	22	B058	4X5.8	75	50	10	B058	4X5.8	40
	33	C058	5X5.8	90		10	C058	5X5.8	90
	47	C058	5X5.8	120		22	C058	5X5.8	90
	68	E058	6.3X5.8	150		47	E058	6.3X5.8	110
	100	E058	6.3X5.8	150		100	E077	6.3X7.7	175
	150	E077	6.3X7.7	300		220	F105	8X10.5	335
	330	F105	8X10.5	420		330	G105	10X10.5	450
	560	G105	10X10.5	550					

Above size is the standard size for our product. If you need special size please contact our sales offices.