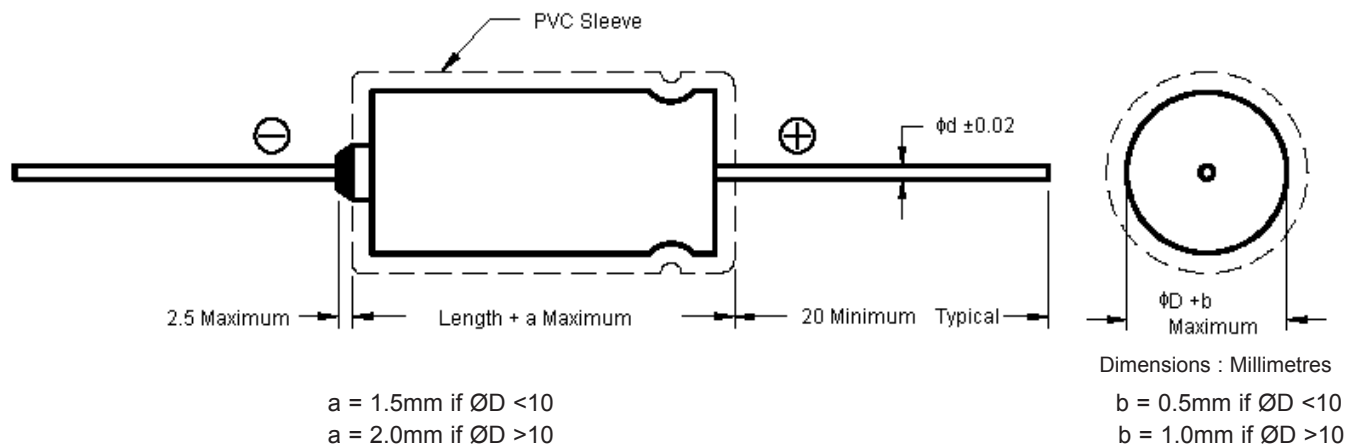


ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	S. R	8/5/06	K. S	8/5/06	N. K	22/5/06



Features:

- Low Impedance characteristics.
- Case sizes are smaller than conventional general-purpose capacitors, with very high performance.
- Can size larger than 8mm diameter has safety vent on rubber bun.
- General purpose 85°C.
- Axial leaded electrolytic.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:

S. Ram

DATE:

08/05/06

CHECKED BY:

K. Suresh

DATE:

08/05/06

APPROVED BY:

N. Kiwomya

DATE:

22/05/06

DRAWING TITLE:

LV Series - Axial Electrolytic Capacitors

SIZE
A

DWG NO.

M10000226

ELECTRONIC FILE
208517_2_DWG

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 6

	PART NO. LV Series	REVISIONS									
		ECN #	REV	DESCRIPTION		DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	A	RELEASED		S. R	8/5/06	K. S	8/5/06	N. K	22/5/06

Characteristics

Item	Characteristic																		
Operating temperature range	-40°C to +85°C.																		
Capacitance tolerance	±20% (at 20°C, 120Hz).																		
Leakage current	I = 0.02CV or 3µA whichever is greater (after 3 minutes applying the rated DC working voltage at 20°C) where C = rated capacitance in µF, V = rated DC working voltage in V.																		
Dissipation factor (tan δ) (At 20°C, 120Hz)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Tan δ</td><td>0.23</td><td>0.20</td><td>0.17</td><td>0.15</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table>	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	Tan δ	0.23	0.20	0.17	0.15	0.12	0.10	0.09	0.08
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100										
	Tan δ	0.23	0.20	0.17	0.15	0.12	0.10	0.09	0.08										
For capacitors whose capacitance exceeds 1000µF, the specification of tan δ is increased by 0.02 for every addition of 1000µF.																			
Surge voltage	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Surge Voltage (V)</td><td>7.3</td><td>13</td><td>20</td><td>32</td><td>44</td><td>63</td><td>79</td><td>125</td></tr></table>	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	Surge Voltage (V)	7.3	13	20	32	44	63	79	125
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100										
Surge Voltage (V)	7.3	13	20	32	44	63	79	125											
Low temperature characteristics	1. Capacitance at -40°C shall not be less than 80% of the value at 20°C. 2. Impedance ratio at 120Hz.																		
	Rated Voltage (V)		6.3	10	16	25	35	50	63	100									
	Z (-25°C)	(ØD < 16)	6	4	3	3	2	2	2	2									
	Z (+20°C)	(ØD ≥ 16)	8	6	4	4	3	3	3	3									
	Z (-40°C)	(ØD < 16)	10	8	6	6	4	3	3	3									
	Z (20°C)	(ØD ≥ 16)	18	16	12	10	8	8	6	6									
Load life (After 1000 hours application of rated voltage at 85°C, capacitors meet the characteristics requirements listed at right)	Leakage Current		Initial specified value or less																
	Capacitance Change		within ±20% of initial value																
	Capacitance Factor		200% of less of initial specified value																
Shelf life	After leaving capacitors under no load at 85°C for 1000 hours and applying voltage they meet the specified value for load life characteristics listed above.																		

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	S. Ram		08/05/06		LV Series - Axial Electrolytic Capacitors				
	CHECKED BY:		DATE:						
	K. Suresh		08/05/06		SIZE A	DWG NO. M10000226	ELECTRONIC FILE 208517_2_DWG	REV A	
	APPROVED BY:		DATE:						
N. Kiwomya		22/05/06		SCALE: NTS		U.O.M.: mm		SHEET: 2 OF 6	

	PART NO. LV Series	REVISIONS								
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	A	RELEASED	S. R	8/5/06	K. S	8/5/06	N. K	22/5/06

Allowable ripple current Vs ambient temperature

Ambient Temperature (°C)	Under 50	70°C	85
Multiplier	1.78	1.40	1.00

Frequency coefficient of allowable ripple current

Frequency (Hz) \ Capacitance (µF)	60	120	500	1K	10K up
Under 100	0.70	1.00	1.30	1.40	1.50
100 - 1000	0.75		1.20	1.30	1.35
1000 up above	0.80		1.12	1.12	1.15

Specifications

Voltage (V)	Capacitance (µF)	Case Size Length (L) x Diameter (φD)	Allowable Ripple Current (mA)*	Lead Diameter	Part Number
10	470	16 x 8	350	0.6	LV471M1AB-0816(E)
	1000	17 x 10	640		LV102M1AB-1017(E)
	2200	22 x 13	1051		LV222M1AB-1322(E)
	4700	28 x 16	1552	0.8	LV472M1AB-1628(E)
16	22	13 x 5	60	0.6	LV220M1CB-0513(E)
	100	14 x 6.3	160		LV101M1CB-6.314(E)
	220	13 x 8	260		LV221M1CB-0813(E)
	470	16 x 8	430		LV471M1CB-0816(E)
	1000	21 x 10	770		LV102M1CB-1021(E)
	2200	24 x 13	1125		LV222M1CB-1324(E)
	4700	33 x 16	1650	0.8	LV472M1CB-1633(E)
25	10	13 x 5	40	0.6	LV100M1EB-0513(E)
	22		65		LV220M1EB-0513(E)
	47	13 x 6	100		LV470M1EB-0613(E)
	100	13 x 8	170		LV101M1EB-0813(E)

* Ripple Current at 85°C, 120Hz

Dimensions : Millimetres

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		S. Ram	08/05/06	LV Series - Axial Electrolytic Capacitors				
		CHECKED BY:	DATE:	SIZE	DWG NO.	ELECTRONIC FILE		REV
		K. Suresh	08/05/06	A	M10000226	208517_2_DWG		A
		APPROVED BY:	DATE:					
		N. Kiwomya	22/05/06					
		SCALE: NTS		U.O.M.: mm		SHEET: 3 OF 6		

SHEET: 6 OF 6