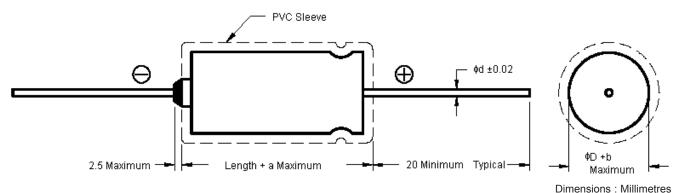


LV Series

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



a = 1.5mm if ØD <10

a = 2.0 mm if ØD > 10

Features:

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

b = 0.5mm if ØD <10 b = 1.0mm if ØD >10

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APPROVED BY:	DATE:
N. Kiwomya	22/05/06

DRAV	ctrolytic Capacito	rs		
SIZE	DWG NO.	N44000000	ELECTRONIC FILE	R

A M10000226 208517_2_DWG

SCALE: NTS U.O.M.: mm SHEET: 1

SHEET: 1 OF 6

REV

Α



LV Series

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

Characteristics

Item	Characteristic											
Operating temperature range	-40	-40°C to +85°C.										
Capacitance tolerance	±2	±20% (at 20°C, 120Hz).										
Leakage current		I = 0.02CV or 3μA whichever is greater (after 3 minutes applying where C = rated capaci										
		Rated Voltage (V)	6.3	10	16	25	35	50	63	100	
Dissipation factor (tan δ) (At 20°C, 120Hz)		Tan δ		0.23	0.20	0.17	0.15	0.12	0.10	0.09	0.08	
		For capacitors whose capacitance exceeds $1000\mu\text{F}$, the specification of tan δ is increased by 0.02 for every addition of $1000\mu\text{F}$.										
Surge voltage		Rated Voltage (V)	6.3	10	16	25	35	50	63	100	
		Surge Voltage (V)		7.3	13	20	32	44	63	79	125	
		 Capacitance at -40°C shall not be less than 80% of the value at 20°C. Impedance ratio at 120Hz. 										
		Rated Voltage (V)	6.3	3 10) 16	3 25	5 35	5 50	63	3 100)
Low temperature characteristics		Z (-25°C)	(ØD < 1	6) 6	4	3	3	2	2	2	2	
		Z (+20°C)	(ØD ≥ 1	6) 8	6	4	4	3	3	3	3	
		Z (-40°C)	(ØD < 1	6) 10	8	6	6	4	3	3	3	
		Z (20°C)	(ØD ≥ 1	6) 18	10	3 12	2 10	8 0	8	6	6	
Load life (After 1000 hours application of rated voltage at 85°C, capacitors meet the characteristics		Leakage Current Capacitance Change			Initial specified value or less							
					within ±20% of initial value							
requirements listed at right)					less of ini	ial specifie	d 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.						ad life					

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 08/05/06

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 N. Kiwomya
 22/05/06

LV Series - Axial Electrolytic Capacitors

 SIZE A
 DWG NO.
 M10000226
 ELECTRONIC FILE 208517_2_DWG
 REV A

 SCALE: NTS
 U.O.M.: mm
 SHEET: 2 OF 6



LV Series

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	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		1.30	1.40	1.50
100 - 1000	0.75	1.00	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
	470	16 x 8	350		LV471M1AB-0816(E
40	1000	17 x 10	640	0.6	LV102M1AB-1017(E
10	2200	22 x 13	1051		LV222M1AB-1322(E
	4700	28 x 16	1552	0.8	LV472M1AB-1628(E
	22	13 x 5	60		LV220M1CB-0513(E
	100	14 x 6.3	160		LV101M1CB-6.314(E
	220	13 x 8	260	0.6	LV221M1CB-0813(E
16	470	16 x 8	430	0.0	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
	10	13 x 5	40		LV100M1EB-0513(E
25	22	13 % 3	65	0.6	LV220M1EB-0513(E
20	47	13 x 6	100	0.0	LV470M1EB-0613(E
	100	13 x 8	170		LV101M1EB-0813(E

^{*} Ripple Current at 85°C, 120Hz

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K. Suresh	08/05/06
APPROVED BY:	DATE:
N. Kiwomya	22/05/06

Dimensions : Millimetres

DRAWING TITLE:

LV Series - Axial Electrolytic Capacitors

SIZE DWG NO. M10000226 ELECTRONIC FILE REV A

SCALE: NTS U.O.M.: mm SHEET: 3 OF 6



LV Series

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

Specifications

Voltage (V)	Capacitance (μF)	Case Size Length (L) x Diameter (φD)	Allowable Ripple Current (mA)*	Lead Diameter	Part Number
	220	16 x 8	280		LV221M1EB-0816(E)
	470	21 x 10	510	0.6	LV471M1EB-1021(E)
25	1000	22 x 13	873		LV102M1EB-1322(E)
	2200	28 x 16	1344	0.0	LV222M1EB-1628(E)
	4700	36 x 18	1881	0.8	LV472M1EB-1836(E)
	22	13 x 6	70		LV220M1VB-0613(E)
	100	16 x 8	210	0.6	LV101M1VB-0816(E)
	220	17 x 10	340		LV221M1VB-1017(E)
35	470	22 x 13	610		LV471M1VB-1322(E)
	1000	27 x 13	955		LV102M1VB-1327(E)
	2200	36 x 16	1421	0.0	LV222M1VB-1636(E)
	4700	43 x 22	2280	0.8	LV472M1VB-2243(E)
	22	14 x 6.3	90		LV220M1JB-6.314(E)
63	47	16 x 8	160	0.6	LV470M1JB-0816(E)
	100	17 x 10	260		LV101M1JB-1017(E)

^{*}Ripple Current at 85°C, 120Hz.

Dimensions : Millimetres

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DRAW	ING TITLE:	LV Series - Axial Ele	ectrolytic Capacito	rs
SIZE	DWG NO.	144000000	ELECTRONIC FILE	REV

U.O.M.: mm

M10000226

SCALE: NTS

ELECTRONIC FILE REV 208517_2_DWG A

SHEET: 4 OF 6



LV Series

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

Specifications

Voltage (V)	Capacitance (μF)	Case Size Length (L) x Diameter (φD)	Allowable Ripple Current (mA)*	Lead Diameter	Part Number
	220	22 x 13	480	0.0	LV221M1JB-1322(E)
	470	27 x 13	780	0.6	LV471M1JB-1327(E)
63	1000	33 x 16	1249		LV102M1JB-1633(E)
	2200	42 x 20	1744	0.8	LV222M1JB-2042(E)
	4700	52 x 25	2710		LV472M1JB-2552(E)
	2.2	13 x 5	28		LV2R2M2AB-0513(E)
	4.7	13 x 6	40		LV4R7M2AB-0613(E)
100	22	16 x 8	120	0.6	LV220M2AB-0816(E)
	47	21 x 10	190		LV470M2AB-1021(E)
	100	22 x 13	340		LV101M2AB-1322(E)

^{*}Ripple Current at 85°C, 120Hz.

Dimensions: Millimetres

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APPROVED BY:	DATE:
N. Kiwomya	22/05/06

DRAW	VING TITLE:			
		LV Series - Axial Ele	ctrolytic Capacito	rs
SIZE	DWG NO.	M10000226	ELECTRONIC FILE	REV

U.O.M.: mm

A M10000226

SCALE: NTS

ELECTRONIC FILE REV 208517_2_DWG A

SHEET: 5 OF 6



LV Series

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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DRAWING TITLE:

LV Series - Axial Electrolytic Capacitors

SIZE DWG NO.

M10000226

ELECTRONIC FILE 208517 2 DWG

SHEET: 6 OF 6

REV

Α

SCALE: NTS U.O.M.: mm