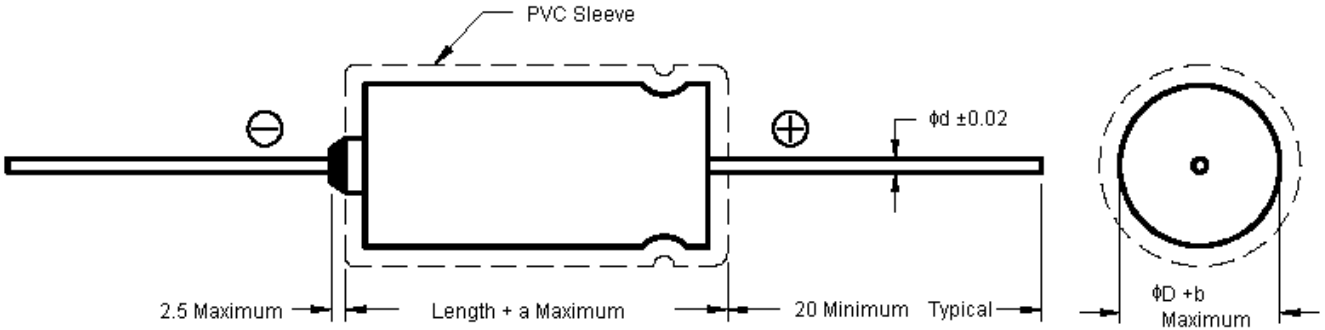
multicomp

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



Dimensions : Millimetres

a = 1.5mm if ØD <10
a = 2.0mm if ØD >10

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

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

DRAWING TITLE: LV Series - Axial Electrolytic Capacitors

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

SCALE: NTS | U.O.M.: mm | SHEET: 1 OF 6

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PART NO.

LV Series

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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)	**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	**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.
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.

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

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K. Suresh	08/05/06
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SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 6

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PART NO.

LV Series

REVISIONS									
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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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

TOLERANCES:

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

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

multicomp	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

Specifications

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

*Ripple Current at 85°C, 120Hz.

Dimensions : Millimetres

TOLERANCES:

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

DRAWING TITLE: LV Series - Axial Electrolytic Capacitors

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

SCALE: NTS | U.O.M.: mm | SHEET: 4 OF 6

multicomp	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

Specifications

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

TOLERANCES:

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

DRAWING TITLE: LV Series - Axial Electrolytic Capacitors

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

SCALE: NTS | U.O.M.: mm | SHEET: 5 OF 6

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PART NO.

LV Series

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Notes:

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N. Kiwomya	22/05/06

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A	M10000226	208517_2_DWG	A

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