

# Reversible Electrolytic Capacitors

## 90V Low Loss Type (LLA) • Tolerance $\pm 10\%$ @ 1KHz

The LLA range represents the ultimate in reversible electrolytic capacitors - a combination of highest possible working voltage and lowest possible DF.

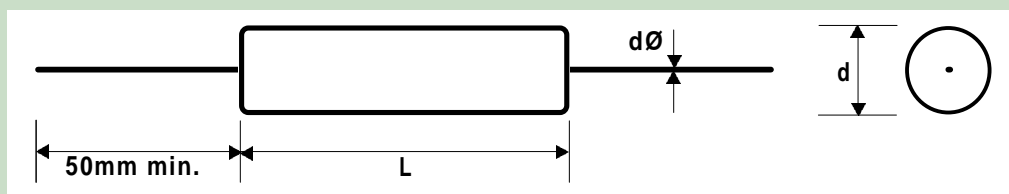
LLA capacitors are the logical choice for very high power and/or critical applications where minimal signal loss and distortion are required.

Today's trends in loudspeaker design often demand high value capacitors in series with bass units, high pass filters with low transition frequencies or simply high voltage, high current working. For all these circumstances, LLA capacitors are ideal, indeed essential, for optimum performance.

More conventional crossover configurations can also benefit from the superior signal transmission characteristics of LLA capacitors where the best possible sound quality is vital.

Maximum DF is lower than all other types at 3.5% @ 1 KHz.

Capacitance Value ( $\mu\text{F}$ )	Size (mm)			Part Number	Ripple * Current (A)	Max. DF (%)
	d	L	d $\emptyset$			
3.3	16	34	0.8	3U30 V90KLLA	3.0	3.5
4.0	16	34	0.8	4U00 V90KLLA	3.2	3.5
8.0	16	34	0.8	8U00 V90KLLA	3.5	3.5
10.0	16	34	0.8	10U00 V90KLLA	4.0	3.5
16.0	18	44	0.8	16U00 V90KLLA	6.0	3.5
25	18	44	0.8	25U00 V90KLLA	7.0	3.5
30	22	46	0.8	30U00 V90KLLA	8.0	3.5
33	22	46	0.8	33U00 V90KLLA	9.0	3.5
40	22	49	0.8	40U00 V90KLLA	11.0	3.5
45	22	49	0.8	45U00 V90KLLA	12.5	3.5
48	22	49	0.8	48U00 V90KLLA	13.5	3.5
60	22	49	0.8	60U00 V90KLLA	17.0	3.5
66	22	49	0.8	66U00 V90KLLA	19.0	3.5
72	25	50	0.8	72U00 V90KLLA	21.0	3.5
100	25	50	0.8	100U00 V90KLLA	24.0	3.5



**Operating Temperature Range:** - 40° C to + 85° C

**Leakage Current:** 0.03 x C x V + 5  $\mu\text{A}$

\* **Maximum allowable Ripple Current:** as above, A rms @ 25° C @ 1 KHz

See also **Precautions** and **Technical Data** for further information  
*Ratings only apply to use in loudspeaker applications*