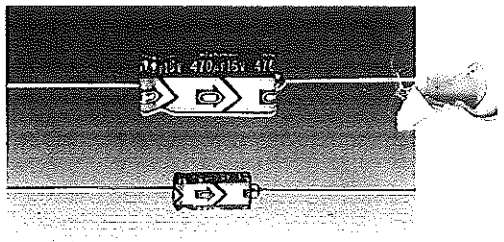
ALUMINUM ELECTROLYTIC CAPACITORS

LB

Electrolytic Capacitor for General-Purpose

series Axial Lead Type T

Anti-Solvent Feature*



- The LB series is a highly reliable and economical series for use in a wide range of applications.
- The standard capacitance tolerance is ±20%(M).

●Specifications

Item	Performance Characteristics
Operating Temperature Range	−40~+85°C
Voltage Range	6.3~100V
Capacitance Range	0.47~33000μF
Capacitance Tolerance	±20% at 120 Hz, 20°C
Leakage Current	After 1 minute of application at rated voltage, leakage current will be no more than 0.03CV or 4μA, whichever is greater. After 5 minutes of application at rated voltage for axial lead types will be ≥8mm, the leakage current will be no more than 0.03CV or 4μA, whichever is greater.
Dissipation Factor (tan δ)	For capacitance values of more than 1000μF, add 0.02 for every increase of 1000μF (φD≤16). This symbol ( ), applies to capacitance values of 10,000μF or more.

Rated voltage (V)		6.3	10	16	25	35	50	63	100
tan δ (MAX.)	φD≤16	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
	φD≥18	0.40(0.50)	0.35(0.50)	0.30(0.35)	0.25(0.35)	0.22(0.30)	0.20	0.20	0.18

Measurement frequency: 120 Hz. Temperature: 20°C

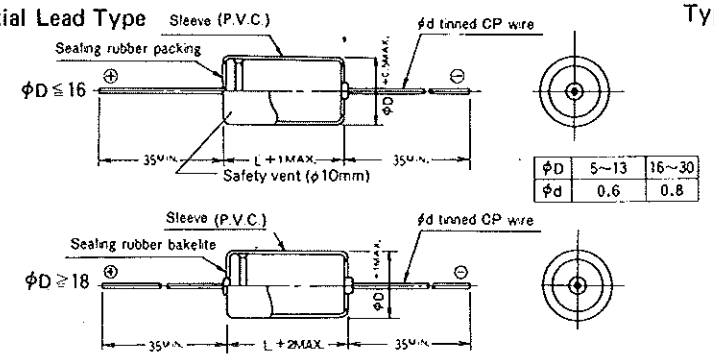
Low Temperature Characteristics	Rated voltage (V)	6.3	10	16	25	35	50	63	100
	Impedance ratio ZT/Z20 (MAX.) Z−25°C/Z+20°C	4(6)	3(4)	2(3)	2(2)	2(2)	2(2)	2(2)	2(2)
	Z−40°C/Z+20°C	8(10)	6(8)	4(6)	4(4)	3(4)	3(4)	3(4)	3(4)

Measurement frequency: 120 Hz.

This symbol ( ), applies to axial and radial lead types with diameters ≥ 10mm

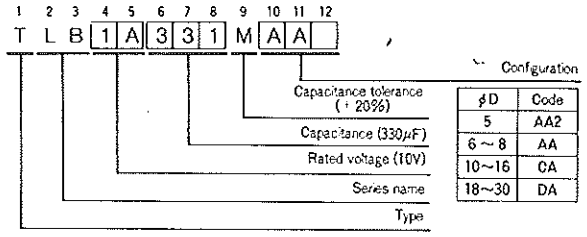
Load Life	After the rated voltage has been applied for 1000 hours at a temperature of 85°C, the capacitors will meet the characteristic requirements listed.	
		Leakage current: Initial specified value or less
		Capacitance change: Within±20% of initial value for capacitors of 16WV or less, and φ6 Within±15% of initial value for capacitors of 25WV or more, and above φ6
		tan δ: 150% or less of initial specified value
		Appearance: No excessive leak of electrolyte or abnormal deformity
Shelf Life	After capacitors have been stored without load at 85°C for 1000 hours and applying voltage according to JIS C-5102 4-3, capacitors will meet the specified value for load life characteristics listed above.	
Marking	Printed with white letters on dark blue sleeve according to JIS C-5141.	
Applicable Standards	Characteristics W of JIS C-5141 and JIS C-5102.	

Axial Lead Type



φD	5~13	16~30
φd	0.6	0.8

Type numbering system (Example: 10V 330μF)



φD	Code
5	AA2
6~8	AA
10~16	CA
18~30	DA

●Nominal Dimensions

DXL (mm)

Cap. (μF) \ W.V.	Code	6.3	10	16	25	35	50	63	100
		0J	1A	1C	1E	1V	1H	1J	2A
0.47	R47						5X12		5X12
1	010						5X12		5X12
2.2	2R2						5X12		5X12
3.3	3R3						5X12	5X12	6X12
4.7	4R7						5X12	5X12	6X12
10	100				5X12	5X12	6X12	6X12	8X16
22	220			5X12	6X12	6X12	6X16	8X16	8X16
33	330		6X12	6X12	6X12	6X16	8X16	8X16	8X20
47	470		6X12	6X12	6X16	8X16	8X16	8X16	10X21
100	101	6X12	6X16	8X16	8X16	8X20	8X20	10X21	13X26
220	221	8X16	8X16	8X16	8X20	10X21	10X26	13X26	13X31.5
330	331	8X16	8X16	8X20	10X21	10X26	13X26	13X26	16X41.5
470	471	8X20	8X20	10X21	10X26	13X26	13X26	13X31.5	16X41.5
1000	102	10X26	10X26	13X26	13X26	13X31.5	16X31.5	16X41.5	22X40
2200	222	13X26	13X31.5	16X31.5	16X41.5	16X41.5	22X40	22X40	25.4X61
3300	332	16X31.5	16X31.5	16X41.5	18X40	22X40	22X52	25.4X52	
4700	472	16X31.5	16X41.5	18X40	22X40	22X52	25.4X52	30X61	
6800	682	16X41.5	18X40	22X40	25.4X52	25.4X61	30X61		
10000	103	22X40	22X40	22X52	25.4X61	30X61			
15000	153	22X52	25.4X52	25.4X61	30X61				
22000	223	25.4X52	25.4X61	30X61					
33000	333	30X61							

Capacitance values of .68, 1.5, 68, 150, 680 are available in the LB Series upon request.

For mm to inch conversions, refer to Inside Back Cover or multiply by .03937.

*On 18mm and larger confirm Anti-Solvent Feature with factory.