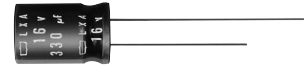


# LXA Series

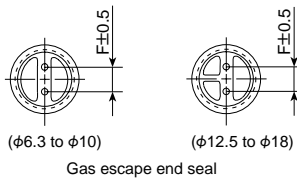
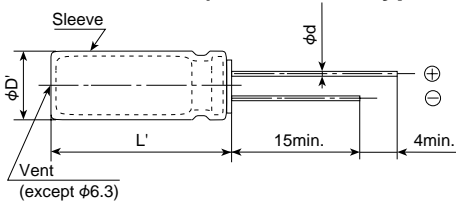
- Endurance : 105°C 5000 to 7000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)



## ◆SPECIFICATIONS

Items	Characteristics	
Category	-55 to +105°C	
Temperature Range		
Rated Voltage Range	10 to 63V <sub>dc</sub>	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
Leakage Current	I=0.01CV or 3µA, whichever is greater. Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 2 minutes)	
Dissipation Factor (tanδ)	Rated Voltage (V <sub>dc</sub> )	10V 16V 25V 35V 50V 63V
	tanδ (Max.)	0.30 0.25 0.22 0.18 0.15 0.12
	When nominal capacitance exceeds 1000µF, add 0.02 to the value above for each 1000µF increase. (at 20°C, 120Hz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for the specified period of time at 105°C.	
	Time	φ6.3 to 10 : 5000 hours φ12.5 to 18 : 7000 hours
	Capacitance change	≤±30% of the initial value
	D.F. (tanδ)	≤300% of the initial specified value
	Leakage current	≤The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.	
	Capacitance change	≤±15% of the initial value
	D.F. (tanδ)	≤150% of the initial specified value
	Leakage current	≤The initial specified value

## ◆DIMENSIONS (Radial Lead Type=VB) [mm]



φD	6.3	8	10	12.5	16	18
φd	0.5	0.6	0.6	0.6	0.8	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5
φD'	φD+0.5max.					
L'	L+1.5max.					

## ◆PART NUMBERING SYSTEM

LXA 50 VB 2R2 M

Cap tolerance (±20%)  
Nominal cap code  
Radial lead type  
Rated voltage in volts  
Series name

Capacitance	Code
0.47µF	R47
1.0µF	1
4.7µF	4R7
10µF	10
100µF	100

**◆STANDARD RATINGS**

μF	Items	10			16			25		
		Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple
		φD×L (mm)	(Ωmax. / 100kHz 20°C)	(Arms/ 105°C 100kHz)	φD×L (mm)	(Ωmax. / 100kHz 20°C)	(Arms/ 105°C 100kHz)	φD×L (mm)	(Ωmax. / 100kHz 20°C)	(Arms/ 105°C 100kHz)
22							6.3×15	1.65	0.14	
33				6.3×15	1.65	0.14	6.3×15	1.65	0.14	
47		6.3×15	1.65	0.14	6.3×15	1.65	0.14	6.3×15	1.65	
100		6.3×15	1.65	0.14	6.3×15	1.65	0.14	8×15	0.90	
220		8×15	0.90	0.21	8×15	0.90	0.21	10×16	0.42	
330		10×16	0.42	0.37	10×16	0.42	0.37	10×20	0.28	
470		10×16	0.42	0.37	10×20	0.28	0.49	12.5×20	0.16	
1,000		12.5×20	0.16	0.72	12.5×25	0.13	0.78	16×25	0.08	
2,200		16×25	0.08	1.22	16×25	0.08	1.22	16×35.5	0.06	
3,300		16×31.5	0.07	1.40	16×35.5	0.06	1.55	18×40	0.05	
4,700		16×35.5	0.06	1.55	18×35.5	0.055	1.69			

μF	Items	35			50			63		
		Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple	Case size	Impedance	Rated ripple
		φD×L (mm)	(Ωmax. / 100kHz 20°C)	(Arms/ 105°C 100kHz)	φD×L (mm)	(Ωmax. / 100kHz 20°C)	(Arms/ 105°C 100kHz)	φD×L (mm)	(Ωmax. / 100kHz 20°C)	(Arms/ 105°C 100kHz)
0.47				6.3×15	4.5	0.14				
1.0				6.3×15	2.6	0.14				
2.2				6.3×15	1.8	0.14				
3.3				6.3×15	1.8	0.14				
4.7		6.3×15	1.65	0.14	6.3×15	1.65	0.14	6.3×15	1.65	
10		6.3×15	1.65	0.14	6.3×15	1.65	0.14	6.3×15	1.65	
22		6.3×15	1.65	0.14	6.3×15	1.65	0.14	6.3×15	1.65	
33		6.3×15	1.65	0.14	8×15	0.90	0.21	8×15	0.90	
47		6.3×15	1.65	0.14	8×15	0.90	0.21	8×15	0.90	
100		8×15	0.90	0.21	10×16	0.55	0.32	10×20	0.37	
220		10×20	0.28	0.49	12.5×20	0.20	0.64	12.5×20	0.20	
330		12.5×20	0.16	0.72	12.5×20	0.20	0.64	12.5×25	0.16	
470		12.5×20	0.16	0.72	16×25	0.09	1.15	16×25	0.09	
1,000		16×25	0.08	1.22	16×31.5	0.07	1.40	18×35.5	0.055	
2,200		18×35.5	0.055	1.69						

**◆RATED RIPPLE CURRENT MULTIPLIERS**
**●Frequency Multipliers**

Capacitance (μF)	Frequency (Hz)				
	50	120	300	1k	10k
0.47 to 4.7	0.1	0.2	0.3	0.5	1.0
10 to 22	0.2	0.3	0.4	0.6	1.0
33 to 47	0.3	0.4	0.5	0.7	1.0
100 to 330	0.4	0.5	0.6	0.8	1.0
470 to	0.6	0.7	0.8	0.9	1.0