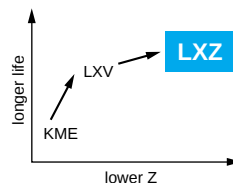


LXZ Series

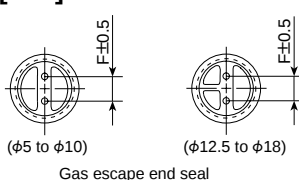
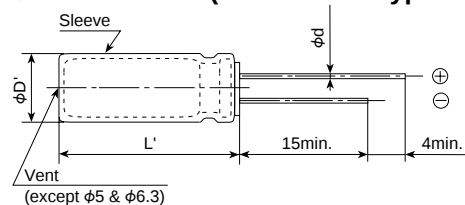
- Newly innovative electrolyte and internal architecture are employed
- Lowest impedance at high frequency range
- Endurance with ripple current: 105°C 2000 to 8000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)



SPECIFICATIONS

Items	Characteristics
Category	
Temperature Range	-55 to +105°C
Rated Voltage Range	6.3 to 63V _{dc}
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 _{dc})
	6.3V 10V 16V 25V 35V 50V 63V
	tanδ (Max.) 0.22 0.19 0.16 0.14 0.12 0.10 0.08 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 subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105°C.
	Time
	Capacitance change
	D.F. (tanδ)
	Leakage current
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
	D.F. (tanδ)
	Leakage current

DIMENSIONS (Radial Lead Type=VB) [mm]



φD	5	6.3	8	10	12.5	16	18
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φD'	φD+0.5max.						
L'	L+1.5max.						

PART NUMBERING SYSTEM

LXZ 16 VB 2200 M K25

Case code
Capacitance tolerance (±20%)
Nominal capacitance code
Radial lead type
Rated voltage in volts
Series name

Capacitance	Code
4.7μF	4R7
10μF	10
100μF	100
2200μF	2200

◆STANDARD RATINGS

φD×L	V _{dc}	Case code	6.3			10			16			25		
			Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Capacitance (μF)	Impedance (Ω _{max} /100kHz)	
				20°C	-10°C		20°C	-10°C		20°C	-10°C		20°C	-10°C
5×11.5	E11		150	0.50	1.0	175	0.50	1.0	175	47	0.50	1.0	175	47
6.3×11.5	F11		330	0.25	0.50	290	0.25	0.50	290	100	0.25	0.50	290	100
6.3×15	F15		470	0.18	0.36	400	0.18	0.36	400	220	0.18	0.36	400	150
8×12	H12		680	0.12	0.24	555	0.12	0.24	555	330	0.12	0.24	555	220
8×15	H15		1,000	0.090	0.18	730	0.090	0.18	730	470	0.090	0.18	730	330
8×20	H20		1,200	0.080	0.16	810	0.080	0.16	810	560	0.080	0.16	810	390
10×12.5	J12		820	0.090	0.18	760	0.090	0.18	760	470	0.090	0.18	760	330
10×16	J16		1,200	0.068	0.136	1,050	0.068	0.136	1,050	680	0.068	0.136	1,050	470
10×20	J20		1,500	0.052	0.104	1,220	0.052	0.104	1,220	1,000	0.052	0.104	1,220	680
10×25	J25		2,200	0.045	0.090	1,440	0.045	0.090	1,440	1,200	0.045	0.090	1,440	820
10×30	J30		2,700	0.037	0.074	1,690	0.037	0.074	1,690	1,500	0.037	0.074	1,690	1,000
12.5×20	K20		3,300	0.038	0.076	1,660	0.038	0.076	1,660	1,500	0.038	0.076	1,660	1,000
12.5×25	K25		3,900	0.030	0.060	1,950	0.030	0.060	1,950	2,200	0.030	0.060	1,950	1,500
12.5×30	K30		4,700	0.025	0.050	2,310	0.025	0.050	2,310	2,700	0.025	0.050	2,310	1,800
12.5×35	K35		5,600	0.022	0.044	2,510	0.022	0.044	2,510	3,300	0.022	0.044	2,510	2,200
12.5×40	K40		6,800	0.017	0.034	2,870	0.017	0.034	2,870	3,900	0.017	0.034	2,870	2,700
16×20	L20		5,600	0.029	0.058	2,210	0.029	0.058	2,210	2,700	0.029	0.058	2,210	1,800
16×25	L25		6,800	0.022	0.044	2,560	0.022	0.044	2,560	3,900	0.022	0.044	2,560	2,700
16×30	L30		8,200	0.019	0.038	3,010	0.019	0.038	3,010	4,700	0.019	0.038	3,010	3,300
16×35	L35		10,000	0.017	0.034	3,150	0.017	0.034	3,150	5,600	0.017	0.034	3,150	3,900
16×40	L40		12,000	0.015	0.030	3,710	0.015	0.030	3,710	6,800	0.015	0.030	3,710	4,700
18×20	M20		6,800	0.028	0.056	2,490	0.028	0.056	2,490	3,900	0.028	0.056	2,490	2,200
18×25	M25		10,000	0.020	0.040	2,740	0.020	0.040	2,740	4,700	0.020	0.040	2,740	3,300
18×30	M30		12,000	0.018	0.036	3,330	0.018	0.036	3,330	5,600	0.018	0.036	3,330	3,900
18×35	M35		15,000	0.016	0.032	3,680	0.016	0.032	3,680	8,200	0.016	0.032	3,680	4,700
18×40	M40		18,000	0.015	0.030	3,800	0.015	0.030	3,800	10,000	0.015	0.030	3,800	5,600

φD×L	V _{dc}	Case code	35			50			63		
			Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Capacitance (μF)	Impedance (Ω _{max} /100kHz)		Capacitance (μF)	Impedance (Ω _{max} /100kHz)	
				20°C	-10°C		20°C	-10°C		20°C	-10°C
5×11.5	E11		33	0.50	1.0	175	0.90	1.8	155	12	1.9
6.3×11.5	F11		56	0.25	0.50	290	0.45	0.90	260	22	1.0
6.3×15	F15		100	0.18	0.36	400	0.31	0.62	360	39	0.61
8×12	H12		150	0.12	0.24	555	0.22	0.44	485	68	0.34
8×15	H15		220	0.090	0.18	730	0.16	0.32	635	100	0.27
8×20	H20		270	0.080	0.16	810	0.12	0.24	730	150	0.21
10×12.5	J12		220	0.090	0.18	760	0.16	0.32	620	100	0.255
10×16	J16		330	0.068	0.136	1,050	0.13	0.26	850	120	0.190
10×20	J20		470	0.052	0.104	1,220	0.088	0.18	1,050	180	0.145
10×25	J25		560	0.045	0.090	1,440	0.073	0.15	1,250	220	0.130
10×30	J30		680	0.037	0.074	1,690	0.054	0.11	1,500	330	0.090
12.5×20	K20		680	0.038	0.076	1,660	0.059	0.12	1,480	330	0.085
12.5×25	K25		1,000	0.030	0.060	1,950	0.044	0.088	1,840	390	0.070
12.5×30	K30		1,200	0.025	0.050	2,310	0.039	0.078	2,220	470	0.055
12.5×35	K35		1,500	0.022	0.044	2,510	0.033	0.066	2,290	680	0.047
12.5×40	K40		1,800	0.017	0.034	2,870	0.029	0.058	2,500	820	0.042
16×20	L20		1,200	0.029	0.058	2,210	0.048	0.096	1,840	470	0.059
16×25	L25		1,800	0.022	0.044	2,560	0.034	0.068	2,240	680	0.050
16×30	L30		2,200	0.019	0.038	3,010	0.028	0.056	2,700	820	0.043
16×35	L35		2,700	0.017	0.034	3,150	0.025	0.050	2,800	1,000	0.036
16×40	L40		3,300	0.015	0.030	3,710	0.021	0.042	3,200	1,200	0.030
18×20	M20		1,800	0.028	0.056	2,490	0.042	0.084	1,980	680	0.055
18×25	M25		2,200	0.020	0.040	2,740	0.029	0.058	2,610	820	0.043
18×30	M30		2,700	0.018	0.036	3,330	0.025	0.050	3,000	1,200	0.032
18×35	M35		3,300	0.016	0.032	3,680	0.023	0.046	3,100	1,500	0.030
18×40	M40		3,900	0.015	0.030	3,800	0.020	0.040	3,400	1,800	0.025

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance (μF)	Frequency (Hz)			
	120	1k	10k	100k
12 to 180	0.40	0.75	0.90	1.00
220 to 560	0.50	0.85	0.94	1.00
680 to 1,800	0.60	0.87	0.95	1.00
2,200 to 3,900	0.75	0.90	0.95	1.00
4,700 to 18,000	0.85	0.95	0.98	1.00