

SB

Low leakage current Series

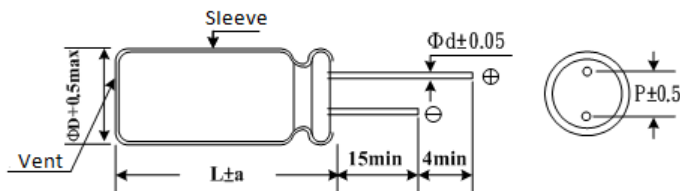
- Endurance : 105°C 1000 hours
- Recommended Applications : in where low leakage current is essential as in coupling of pre-amplifies
Remaining of very low leakage current even after prolonged storage
- Corresponding product to RoHS



■ SPECIFICATIONS

Item	Characteristics									
Category Temperature Range	-40 ~ +105°C									
Rated Voltage Range	6.3 ~ 100VDC									
Rated Capacitance Range	1 ~ 15000 µF									
Capacitance Tolerance	± 20 % (120Hz , 20°C)									
Leakage Current (20°C)	I ≤ 0.002CV or 1.0 µA whichever is greater. (After rated voltage applied for 2 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V)									
Dissipation Factor(MAX) (tan δ) (120Hz , 20°C)	WV	6.3	10	16	25	35	50	63	80	100
	tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.10
When nominal capacitance is over 1000 µF, tan δ shall be added 0.02 to the listed value with increase of every 1000 µF.										
Low Temperature Stability Impedance Ratio (MAX)	WV	6.3	10	16	25	35	50	63	80	100
	Z(120Hz)	4	3	2	2	2	2	2	1.5	1.5
	Z(-25°C) / Z(+20°C)	8	6	4	4	3	3	3	2	2
	Z(-40°C) / Z(+20°C)									
Endurance	After applying rated voltage for 1000 hours at 105°C, the capacitors shall meet the following requirements.									
	Capacitance change	Within ± 25% of initial value								
	D.F. (tan δ)	Not more than 200% of specified value								
	Leakage current	Not more than the specified value								
Shelf Life	After 500 hrs at 105°C without applying rated voltage the capacitors shall meet the following requirements.									
	Capacitance change	Within ± 25% of initial value								
	D.F. (tan δ)	Not more than 200% of specified value								
	Leakage current	Not more than 200% of specified value								

■ Dimensions [mm]



φD	5	6.3	8	10	13	16	18	22
P	2	2.5	3.5	5	5	7.5	7.5	10
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0

■ Multiplier for Ripple Current

Freq. (Hz)	50	120	300	1K	10K
6.3 ~ 25 V	0.85	1.00	1.04	1.08	1.19
35 ~ 50 V	0.80	1.00	1.30	1.40	1.43
63 ~ 100 V	0.77	1.00	1.34	1.43	1.48

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ D×L(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ D×L(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)
6.3V (8)	33	5x11	0.28	55	25V (32)	4700	18x36	0.22	2380
	47	5x11	0.28	65		6800	18x40	0.24	2770
	100	5x11	0.28	95	35V (44)	10	5x11	0.14	45
	220	6.3x11	0.28	165		22	5x11	0.14	65
	330	6.3x11	0.28	195		33	5x11	0.14	80
	470	8x11	0.28	270		47	6.3x11	0.14	110
	1000	10x12.5	0.28	465		100	8x11	0.14	180
	2200	13x20	0.30	925		220	10x12.5	0.14	320
	3300	13x20	0.32	1100		330	10x17	0.14	450
	4700	16x26	0.34	1600		470	10x20	0.14	570
	6800	16x26	0.38	1810		1000	13x25	0.14	1060
	10000	16x32	0.46	2210		2200	16x32	0.16	1700
	15000	18x36	0.56	2760		3300	18x36	0.18	2200
10V (13)	22	5x11	0.24	50	4700	18x40	0.20	2610	
	33	5x11	0.24	60	50V (63)	10	5x11	0.12	55
	47	5x11	0.24	75		22	5x11	0.12	75
	100	5x11	0.24	110		33	6.3x11	0.12	100
	220	6.3x11	0.24	180		47	6.3x11	0.12	120
	330	8x11	0.24	250		100	8x11	0.12	200
	470	8x11	0.24	300		220	10x17	0.12	400
	1000	10x17	0.24	600		330	10x20	0.12	520
	2200	13x20	0.26	1000		470	13x20	0.12	730
	3300	13x25	0.28	1300		1000	16x26	0.12	1330
	4700	16x26	0.30	1700		2200	18x36	0.14	2100
	6800	16x32	0.34	2100		63V (79)	10	5x11	0.10
	10000	18x36	0.42	2630	22		6.3x11	0.10	80
16V (20)	10	5x11	0.20	40	33		6.3x11	0.10	100
	22	5x11	0.20	55	47		8x11	0.10	140
	33	5x11	0.20	70	100		10x12.5	0.10	230
	47	5x11	0.20	85	220		10x20	0.10	430
	100	6.3x11	0.20	140	330		13x20	0.10	610
	220	8x11	0.20	230	470	13x25	0.10	800	
	330	8x11	0.20	280	1000	16x32	0.10	1460	
	470	10x12.5	0.20	400	80V (100)	10	6.3x11	0.10	60
	1000	10x17	0.20	660		22	8x11	0.10	110
	2200	13x25	0.22	1210		33	8x11	0.10	130
	3300	16x26	0.24	1610		47	10x12.5	0.10	180
	4700	16x32	0.26	2020		100	10x17	0.10	310
	6800	18x36	0.30	2520		220	13x20	0.10	560
10000	18x40	0.38	2910	330		13x25	0.10	750	
25V (32)	10	5x11	0.16	40	470	16x26	0.10	1020	
	22	5x11	0.16	60	1000	18x36	0.10	1830	
	33	5x11	0.16	75	100V (125)	10	6.3x11	0.10	65
	47	5x11	0.16	90		22	8x11	0.10	115
	100	6.3x11	0.16	140		33	10x12.5	0.10	160
	220	8x11	0.16	250		47	10x17	0.10	230
	330	10x12.5	0.16	360		100	13x20	0.10	410
	470	10x17	0.16	490		220	16x26	0.10	750
	1000	13x20	0.16	880		330	16x26	0.10	920
	2200	16x26	0.18	1550		470	16x32	0.10	1200
	3300	16x32	0.20	1860					