

Features

- Low leakage current product
- Suitable for prepositive amplifier of high-grade
- audio and oscillating return of TV set
- RoHS Compliance

Specifications

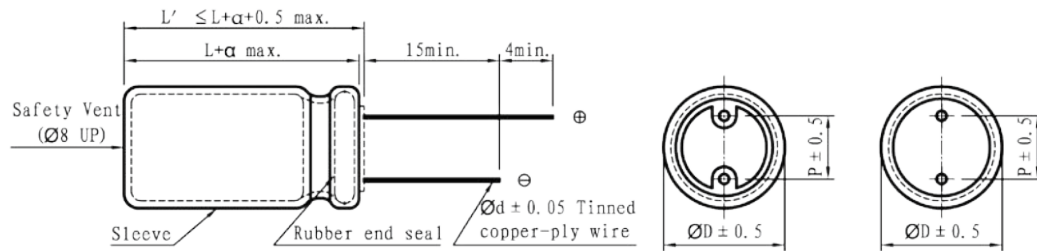
Items	Characteristics								
Capacitance Tolerance	± 20%(120Hz,20°C)								
Operating Temperature Range	SA : -40 ~ +85°C SB : -40 ~ +105°C								
Rated Voltage Range	6.3 ~ 100VDC								
Leakage Current	I ≤ 0.002CV or 0.4 (μA) , which is greater. (After 2 minutes application of DC rated voltage, at 20 °C)								
Dissipation Factor (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C								
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100
	tan δ(Max)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08
When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.									
Low Temperature Stability Impedance Ratio(Max)	Measurement Frequency: 120Hz.								
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100
	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2
	Z(-40°C)/Z(20°C)	8	6	6	4	4	3	3	3
Load Life	2000hours ,with application of rated voltage at 85°C(1000hours at 105°C)								
	Capacitance Change	Within ± 25% of Initial Value							
	tan δ	200% or less of Initial Specified Value							
	Leakage Current	Initial Specified Value or less							
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 85°C and 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.								
	Capacitance Change	Within ± 25% of Initial Value							
	tan δ	200% or less of Initial Specified Value							
	Leakage Current	Initial Specified Value or less							
Standards	JIS C 5101-4 (IEC 60384)								

Frequency Coefficient of Permissible Ripple Current

Capacitance (μF)	Frequency (Hz)			
	50	120	1K	10K
< 100	0.80	1.00	1.30	1.50
100 ~ 1000	0.80	1.00	1.15	1.20
> 1000	0.80	1.00	1.10	1.15

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

Dimensions(mm)



ϕD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ϕd	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α	(L < 16) 1.0
	(L ≥ 16) 2.0

Standard Ratings

D×L (mm) ; R.C.(mA rms) at 85°C/105°C 120Hz

Cap (µF)	V (Code)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
4.7								5x11	45
6.8								5x11	55
10						5x11	55	5x11	70
15						5x11	70	5x11	85
22						5x11	85	5x11	100
33						5x11	100	6.3x11	140
47				5x11	100	6.3x11	140	6.3x11	170
68				6.3x11	150	6.3x11	160	8x12	230
100				6.3x11	180	8x12	230	8x12	280
150				8x12	250	8x12	280	10x13	370
220				8x12	310	10x13	370	10x16	400
330				10x13	400	10x16	420	10x20	490
470	10x13	385		10x16	530	10x16	550	10x20	650
680	10x13	480		10x16	600	10x20	720	13x21	800
1000	10x16	640		10x20	780	13x21	900	13x25	1000
1500	10x20	900		13x25	1020	16x26	1150	16x32	1270
2200	13x21	1050		13x25	1200	16x26	1300	16x36	1440
3300	16x26	1300		16x32	1420	16x36	1550	18x40	1720
4700	16x32	1500		16x36	1650	18x35	1820		

Cap (µF)	V (Code)	35 (1V)		50 (1H)		63 (1J)		100 (2A)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1				5x11	1.1			5x11	2.1
0.15				5x11	1.6			5x11	3.2
0.22				5x11	2.3			5x11	4.7
0.33				5x11	3.5			5x11	7.0
0.47				5x11	5.0			5x11	10.1
0.68				5x11	7.3			5x11	14.5
1				5x11	10.7			5x11	19
1.5				5x11	16			5x11	23
2.2				5x11	23			5x11	28
3.3				5x11	40			5x11	45
4.7				5x11	45			5x11	50
6.8				5x11	55	5x11	59	6.3x11	65
10				5x11	70	6.3x11	75	8x12	90
15				5x11	85	6.3x11	100	8x12	110
22				6.3x11	110	6.3x11	110	8x12	136
33				6.3x11	140	8x12	170	10x13	180
47				8x12	190	8x12	200	10x16	220
68				8x12	230	10x13	270	10x20	290
100				10x13	300	10x16	320	10x20	370
150				10x16	400	10x20	420	13x21	470
220				10x20	440	13x21	490	13x25	580
330				13x21	550	13x21	600	16x26	730
470				13x25	680	13x25	750	16x32	910
680				13x25	800	16x26	850	18x35	910
1000				16x26	1110	16x32	1140		
1500				16x32	1390	18x35	1330		
2200				18x35	1580				

※ 13mm may be replaced by 12.5mm upon customer's request.