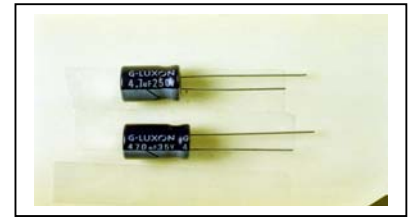




SR Series

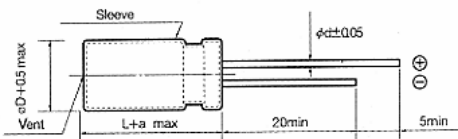
- | | |
|--|---|
| <ul style="list-style-type: none"> ■ Features • Lifetime:85°C,2000hrs • Shorter profile for GR • General purpose | <ul style="list-style-type: none"> ■ Recommended Applications • AV(TV, Video, Audio) • Monitor/Computer • OA/HA/Communication |
|--|---|



Specifications

Items	Characteristics															
Capacitance Tolerance	±20% (M) (120Hz,20°C)															
Rated Voltage Range (WV)	6.3~100 VDC										160~450 VDC					
Operating Temperature Range	-40 ~ +85°C										-25 ~ +85°C					
Surge Voltage (V) (20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	SV	8	13	20	32	44	63	79	125	200	250	300	400	450	500	
Leakage Current (Max)	I ≤ 0.01CV or 3 μA whichever is greater (After rated voltage applied for 2 minutes)										I ≤ 0.03CV+10 μA (After rated voltage applied for 3 minutes)					
	I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V) (20°C)															
Dissipation Factor (Max) (tan δ) (120Hz, 20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	tan δ	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.10	0.20	0.20	0.20	0.24	0.24	0.24	
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	100	160	200	250	350	400	450
	Z (120Hz)															
	Z(-25°C) / Z(20°C)			5	4	3	2	2	2	2	2	4	4	4	6	6
Z(-40°C) / Z(20°C)			12	10	8	5	4	3	4	4	4	5	5	6	6	-
Load Life	After applying rated voltage for 2000 hours at 85°C, the capacitor shall meet the following requirement.															
	Capacitance Change					Within ±20% of the initial value										
	Dissipation Factor					Not more than 200% of the specified value										
	Leakage Current					Not more than the specified value										
Shelf Life	After placed at 85°C without voltage applied for 1000 hours, the capacitor shall meet the same requirement as load life.															
Others	Satisfied JIS C-5141															

Dimensions (mm)



φ D	13	16	18
P	5.0	7.5	7.5
φ d	0.6	0.8	0.8
a	2.0	2.0	2.0

Multiplier for Ripple Current

Frequency coefficient

WV (VDC)	Cap (μF)	Freq.(Hz)			
		50	120	1K	~10K
6.3~100	0.1~47	0.75	1.00	1.57	2.00
	100~470	0.80	1.00	1.34	1.50
	1000~22000	0.85	1.00	1.13	1.15
160~450	0.47~330	0.80	1.00	1.40	1.60

Temperature coefficient

Ambient Temperature (°C)	≤ 50	70	85
Coefficient	1.36	1.25	1.00



Case Size & Max Ripple Current

CASE SIZE (ϕ DxL(mm)) & MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 120Hz,85°C)

WV	6.3		10		16		25		35		50		63	
μF \ SPEC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC
47													10x12.5	280
100											10x12.5	390	13x16	490
220									10x12.5	430	13x16	670	16x16	810
330					10x12.5	530	10x12.5	580	13x16	670	13x16	740	16x16	950
470			10x12.5	600	10x12.5	630	13x16	900	13x16	940	16x16	1060	18x26	1420
1000	10x12.5	650	10x12.5	780	13x16	1070	16x20	1370	16x16	1290	18x20	1620		
2200	13x16	1160	13x16	1250	13x16	1300	16x20	1740	18x20	1890	18x26	2110		
3300	16x16	1570	16x16	1610	16x20	1860	18x26	2320						
4700	16x16	1720	18x20	2390	18x26	2490								
6800	16x20	2090	18x20	2280										
10000	18x26	2520	18x26	2440										

WV	100		160		200		250	
μF \ SPEC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC
10			10x12.5	130	10x12.5	140	10x12.5	150
22			13x16	250	13x16	270	13x16	290
33	10x12.5	220	13x16	290	13x16	320	16x16	400
47	13x16	370	13x16	350	16x16	420	18x16	500
100	13x16	480	16x20	630	18x20	680	18x26	800
220	18x16	820						
330	18x26	1090						