SG Series

■STANDARD RATINGS

WV(vdc) / Parameter / Cap.(μF)	6.3		10		16		25		35		50	
	ΦDxL (mm)	Ripple Current (mArms) 105℃ 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105℃ 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105℃ 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105℃ 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105℃ 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105℃ 120Hz
1.0											5x9	10
2.2											5x9	15
3.3											5x9	22
4.7							5x9	12	5x9	15	5x9	25
10					5x9	25	5x9	30	5x9	35	5x9	35
22	5x9	20	5x9	30	5x9	40	5x9	45	5x9	40	5x9	55
33	5x9	30	5x9	45	5x9	50	5x9	65	5x9	64	6.3x9	75
47	5x9	40	5x9	50	5x9	60	5x9	75	6.3x9	90	6.3x9	95
100	5x9	75	5x9	85	6.3x9	90	6.3x9	120	8x9	145	10x9	165
220	6.3x9	135	6.3x9	145	8x9	190	10x9	225	10x9	205		
330	6.3x9	145	8x9	210	8x9	240	10x9	245				
470	8x9	225	8x9	245	10x9	280						

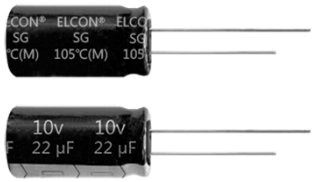
ELCON

Radial Lead Aluminum Electrolytic Capacitors

SG

Series

- Wide temperature range, height 9mm
- 105℃ 1000 hours guaranteed, low profile



■SPECIFICATIONS

Item	Characteristics
Category Temperature Range	-40 ~ +105℃
Voltage Range	6.3 ~ 50V.DC
Nominal Cap. Range	1.0 ~ 470μF
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)
Leakage Current	I=0.01CV or 3 (μA) , whichever is greater (After 2 minutes). where, I: max.leakage current(μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20℃)

Dissipation Factor (MAX) (tanδ) (at 120Hz ,20℃)

WV	6.3	10	16	25	35	50
tanδ	0.28	0.24	0.20	0.16	0.14	0.12

Low Temp.Impedance Stability at 120Hz

WV	6.3	10	16	25	35	50
Z-25℃ / Z+20℃	5	4	3	2	2	2
Z-40℃ / Z+20℃	10	8	6	4	4	3

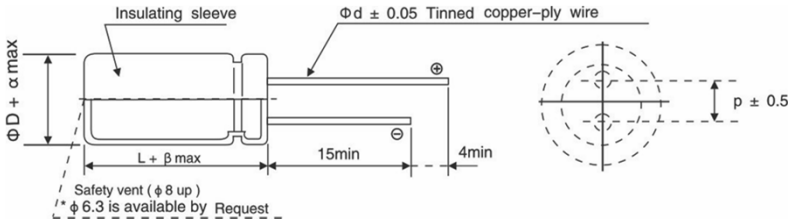
Endurance

After 1000 hours application of DC rated working voltage at 105℃, the capacitor shall meet the following limits.

Capacitance change	≤ ±20% of the initial value
Dissipation Factor	≤ 200% of the initial specified
Leakage Current	≤ the initial specified value

Shelf Life	After storage for 500 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be met.

■ DRAWING



Unit: (mm)

ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.50			0.6
β	1.0			1.5
α	0.5			

■ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz) / Cap.(μF)	60(50)	120	300	1K	10K	100K
1~4.7	0.75	1.00	1.35	1.57	2.00	2.50
10~47	0.80	1.00	1.23	1.34	1.50	1.75
100~470	0.85	1.00	1.10	1.13	1.15	1.20

(2) Temperature Coefficient

Ambient Temperature(℃)	50	60	75	85	105
Coefficient	2.20	1.80	1.50	1.20	1.00