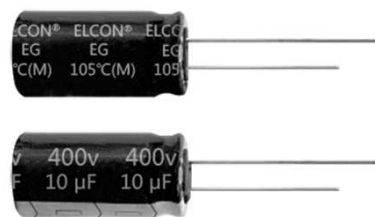


EG

Series

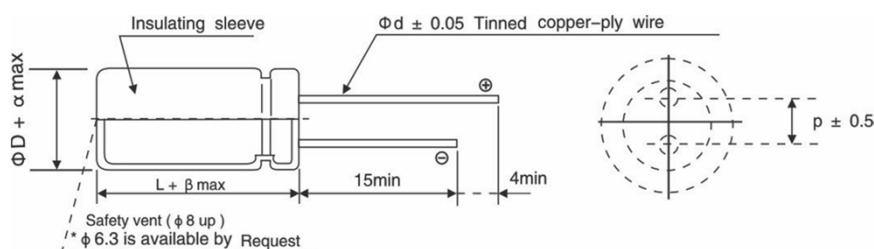
- Wide operating temperature range of -40~+105°C
- Standard series for general-purpose
- Voltage range of 6.3~450V
- Load life of 2000 hours at 105°C



SPECIFICATIONS

Item	Characteristics										
Category Temperature Range	-40 ~ +105℃				-40 ~ +105℃				-25 ~ +105℃		
Voltage Range	6.3 ~ 100V.DC				160 ~ 350V.DC				400 ~ 450V.DC		
Nominal Cap. Range	0.1 ~ 15000μF				0.47 ~ 330μF				1 ~ 68μF		
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)										
Leakage Current	WV	6.3~100V.DC						160~450V.DC			
	L.C.	I=0.01CV or 3 (μA), whichever is greater (after 2min)						I=0.02CV+ 15(μA) (after 5min)			
		I=0.03CV or 4 (μA), whichever is greater (after 1min)									
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	63	100	160~250	400~450
	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20
When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.											
Low Temp.Impedance Stability at 120Hz	WV	6.3	10	16	25~100	160~250	400~450				
	Z-25℃ / Z+20℃	4	3	2	2	3	8				
	Z-40℃ / Z+20℃	8	6	4	3	4	---				
Endurance	After 2000 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 value							
	Leakage Current			≤ the initial specified value							
Shelf Life	After storage for 1000 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	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5			0.6		0.8	
β	1.0			1.5			
α	0.5						

MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz)	60(50)	120	300	1K	10K
Cap.(μF)					
0.1~47	0.75	1.00	1.35	1.55	2.00
68~680	0.80	1.00	1.25	1.34	1.50
1000~15000	0.85	1.00	1.10	1.13	1.15

(2) Temperature Coefficient

Ambient Temperature(°C)	40	60	70	85	105
Coefficient	2.40	2.10	1.78	1.65	1.00

Series

■ STANDARD RATINGS

Parameter	WV(vdc)		6.3		10		16		25		35		50		63	
	Cap.(μF)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz
0.10													5x11	1	5x11	2
0.22													5x11	2	5x11	3
0.33													5x11	3	5x11	4
0.47													5x11	6	5x11	8
0.68													5x11	13	5x11	15
1.0													5x11	16	5x11	18
1.5													5x11	20	5x11	22
2.2													5x11	24	5x11	26
3.3													5x11	29	5x11	32
4.7													5x11	35	5x11	38
6.8													5x11	42	5x11	46
10													5x11	51	5x11	56
15													5x11	62	6.3x11	78
22													5x11	75	6.3x11	95
33								5x11	75	5x11	80	6.3x11	106	6.3x11	116	
47					5x11	81	5x11	90	6.3x11	125	6.3x11	110	6.3x11	127	6.3x11	164
68			5x11	60	5x11	98	6.3x11	125	6.3x11	132	8x11.5	180	10x12.5	229		
100	5x11	99	5x11	87	6.3x11	137	6.3x11	151	8x11.5	189	10x12.5	253	10x16	301		
150	6.3x11	139	6.3x11	150	6.3x11	167	8x11.5	218	10x12.5	269	10x16	340	10x20	406		
220	6.3x11	168	6.3x11	150	8x11.5	239	10x12.5	307	10x12.5	326	10x20	449	13x16	532		
330	6.3x11	206	8x11.5	215	10x12.5	340	10x16	412	10x16	437	13x16	595	13x20	708		
470	8x11.5	290	8x11.5	250	10x16	444	10x20	536	10x20	569	13x20	771	13x25	921		
680	10x12.5	405	10x16	492	10x16	535	13x16	698	13x20	803	13x25	1001	16x25	1228		
1000	10x12.5	491	10x16	470	10x20	707	13x20	918	13x25	1062	16x25	1360	16x31	1630		
1500	10x20	677	10x20	742	13x20	936	13x25	1109	16x25	1290	16x31	1578	18x40	1993		
2200	13x20	913	13x20	991	13x25	1150	16x25	1370	16x31	1560	18x40	2019				
3300	13x20	1067	13x25	1251	16x25	1468	16x36	1794	18x36	1992						
4700	16x25	1474	16x25	1576	16x31	1813	18x40	2264								
6800	16x25	1642	16x31	1901	16x40	2184										
10000	16x31	1977	18x36	2330												
15000	18x36	2396														

Parameter	WV(vdc)		100		160		200		250		350		400		450	
	Cap.(μF)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz	ΦDxL (mm)	Ripple Current (mArms) 105°C 120Hz
0.47	5x11	12	6.3x11	11	6.3x11	11	6.3x11	11								
0.68	5x11	15	6.3x11	13	6.3x11	13	6.3x11	13								
1.0	5x11	18	6.3x11	16	6.3x11	16	6.3x11	16	8x11.5	19	8x11.5	19	8x11.5	16		
1.5	5x11	22	6.3x11	19	6.3x11	19	8x11.5	23	10x12.5	27	10x12.5	27	10x12.5	22		
2.2	5x11	26	6.3x11	23	8x11.5	28	8x11.5	28	10x12.5	32	10x12.5	32	10x12.5	27		
3.3	5x11	32	8x11.5	34	8x11.5	34	10x12.5	39	10x16	43	10x16	43	10x16	36		
4.7	5x11	38	8x11.5	40	10x12.5	47	10x16	51	10x16	51	10x16	51	10x20	47		
6.8	6.3x11	53	10x12.5	56	10x16	62	10x16	62	10x20	67	10x20	67	13x20	66		
10	6.3x11	64	10x16	75	10x16	75	10x16	75	10x20	82	13x20	96	13x20	80		
15	8x11.5	93	10x16	92	10x20	100	10x20	100	13x20	118	13x25	128	13x25	107		
22	8x11.5	112	10x20	121	13x20	143	13x20	142	13x25	155	13x25	155	16x25	144		
33	10x12.5	159	13x20	175	13x20	175	13x20	175	16x25	211	16x25	211	16x31	193		
47	10x16	208	13x20	208	13x25	227	13x25	227	16x31	276	16x36	289	18x40	272		
68	10x20	274	13x25	273	16x25	303	16x25	303	16x36	348	18x40	392				
100	13x20	389	16x25	368	16x31	402	16x36	422	18x40	475						
150	13x25	520	16x31	492	16x40	543	18x40	582								
220	16x25	699	16x40	657	18x40	705										
330	16x25	856	18x40	863												
470	16x31	1117														
680	18x40	1588														