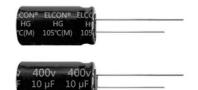
HG

Series

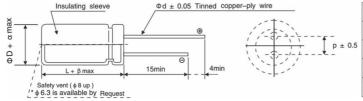
- Wide operating temperature range of -40~+105°C
- Standard series for general-purpose
- Voltage range of 6.3~450V

■SPECIFICATIONS



Item		Characteristics										
Category Temperature Range						-4	0 ~ +105°(-25 ~ +	+105°C			
Voltage Range		6.3 ~ 10	00VDC		160 ~ 350V.DC					400 ~ 450V.DC		
Nominal Cap. Range	0.1 ~ 22	0.1 ~ 22000μF										
Capacitance Tolerance	± 20 % (± 20 % (at 120Hz , 20℃)										
	WV			6.3~	00V.DC				16	60~450V.DC		
Leakage Current	L.C.	I=0.02C\	/ or 3 (_l	JA), whic	hever is (greater (a	fter 3 min)	l=	=0.03CV+	- 30 (µA) (after	3min)	
	where, I: max.leakage current (μA), C:Nominal capacitance (μF), V:Rated voltage (V) (at 20°C)											
	WV	6.3	10	16	25	35	50	63	100	160~250	400~450	
Dissipation Factor (MAX)	tanδ	0.27	0.23	0.20	0.19	0.17	0.15	0.12	0.10	0.15	0.20	
(tanδ) (at 120Hz ,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	W	/V	6.3	10	16~100	1 00~23	350~450					
Stability at 120Hz	Z-25°C / Z+20°C		4	3	2	4	6					
Stability at 120112	Z-40 ℃	/ Z+20 ℃	8	6	4							
	After 1000 hours application of DC rated working voltage at 105℃, the capacitor shall meet the following limits:											
Endurance	Capacita	ance char	nge		≤ ±20% of the initial value							
	Dissipat	ion Facto	r		≤ 200% of the initial specified value							
	Leakage Current ≤ the initial specified value											
Shelf Life	is to be	After storage for 500 hours at 105°C 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	20	22	25	
Р	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5	
Фф		0.5			6		0.	}	1.0		
β		1.0		······	1.	5	2.0				
α	0.5										

■ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

WV(V)	Freq.(Hz)	50	120	1K	10K~100K	
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	0.47~470	0.80	1.00	1.40	1.60	

(2) Temperature Coefficient

Ambient Temperature(℃)	20~70	85	105
Coefficient	1.78	1.40	1.00

HG Series

■STANDARD RATINGS

WV(VDC)		6.3	10		16		25		35		50		63		100	
Parameter	ФDxL	Ripple Current (mArms)														
Cap.(µf)	(mm)	105°C 120Hz														
0.1											5x11	3.4	5x11	3.4	5x11	3.8
0.22											5x11	5	5x11	5	5x11	5.6
0.33											5x11	6.2	5x11	6.2	5x11	6.9
0.47											5x11	7.4	5x11	7.4	5x11	8.2
1.0											5x11	10	5x11	10	5x11	11
2.2											5x11	16	5x11	16	5x11	17
3.3											5x11	19	5x11	20	5x11	21
4.7							5x11	19	5x11	21	5x11	23	5x11	24	5x11	25
10					5x11	26	5x11	28	5x11	30	5x11	33	5x11	35	6.3x11	42
22			5x11	35	5x11	39	5x11	41	5x11	45	6.3x11	59	6.3x11	59	8x11.5	74
33	5x11	39	5x11	42	5x11	43	5x11	50	5x11	54	6.3x11	68	8x11.5	86	8x14	103
47	5x11	46	5x11	50	5x11	57	5x11	60	6.3x11	74	8x11.5	81	8x14	102	10x16	139
100	5x11	67	5x11	74	6.3x11	93	6.3x11	100	8x11.5	129	8x14	141	8x16	169	10x20	223
220	6.3x11	113	6.3x11	124	8x11.5	165	8x11.5	176	8x16	217	10x16	269	10x20	313	13x25	424
330	8x11.5	139	8x11.5	182	8x11.5	202	8x16	246	10x16	301	10x20	363	13x20	443	16x25	583
470	8x11.5	197	8x11.5	217	8x16	275	10x16	332	10x20	395	13x20	502	13x25	583	16x31	753
1000	8x16	327	10x16	405	10x20	500	13x20	619	13x20	668	16x25	907	16x31	1036	22x36	1414
2200	10x20	581	13x20	732	13x20	810	16x25	1064	16x31	1232	18x36	1521	22x36	1778	25x45	1788
3300	13x20	795	13x20	856	16x25	1165	16x31	1330	18x36	1613	22x36	1930	22x40	2123		
4700	13x25	993	16x25	1197	16x31	1404	18x36	1681	20x36	1875	22x40	2216	25x45	2337		
6800	16x25	1265	16x31	1455	16x36	1670	20x36	1996	20x40	2137	25x45	2812				
10000	16x31	1516	18x36	1822	20x36	2080	22x40	2538	22x45	2928						
15000	18x36	1908	20x36	2417	22x40	2838	22x45	3208								
22000	22x40	2748	22x45	3106	25x45	3769										

WV(VDC)	160		200		250		350		400		450	
Parameter	ФDxL	Ripple Current (mArms)										
Cap.(µf)	(mm)	105°C 120Hz										
0.47	5x11	5.8	6.3x11	6.6	6.3x11	6.6	6.3x11	5.7	8x11.5	6.8	8x11.5	6.8
1.0	5x11		6.3x11		6.3x11	9.9	6.3x11	8.5	8x11.5		8x11.5	
2.2	6.3x11		6.3x11		6.3x11	14	8x11.5		8x16	17	8x16	17
3.3	6.3x11	18	6.3x11	18	8x11.5	21	8x16	21	10x16	24	10x16	24
4.7	8x11.5	24	8x11.5	24	8x16	28	10x16	28	10x16	28	10x20	31
10	8x16	42	8x16	42	10x16	47	10x20	44	10x20	44	13x20	52
22	10x16	69	10x20	76	10x20	76	13x20	77	13x25	85	16x25	95
33	10x20	94	13x20	109	13x20	109	16x25	117	16x25	117	18x36	144
47	13x20	129	13x20	129	13x25	142	16x31	151	16x36	161	18x40	183
100	16x25	234	16x25	234	16x31	254	18x40	266	22x36	281		
220	18x36	430	18x40	459	22x36	482						
330	22x36	590	22x40	590								
470	22x40	746										