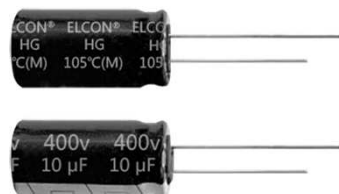


HG

Series

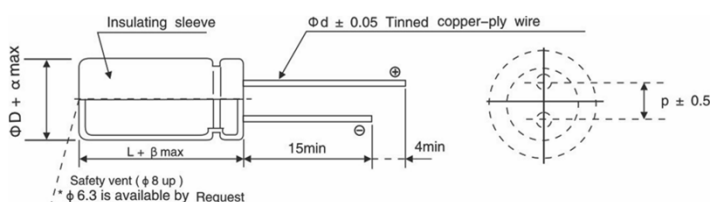
- Wide operating temperature range of -40~+105°C
- Standard series for general-purpose
- Voltage range of 6.3~450V
- Load life of 1000 hours at 105°C



SPECIFICATIONS

Item	Characteristics										
Category Temperature Range						-40 ~ +105℃℃			-25 ~ +105℃		
Voltage Range	6.3 ~ 100VDC					160 ~ 350V.DC			400 ~ 450V.DC		
Nominal Cap. Range	0.1 ~ 22000μF										
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)										
Leakage Current	WV	6.3~100V.DC						160~450V.DC			
	L.C.	I=0.02CV or 3 (μA), whichever is greater (after 3 min)						I=0.03CV+ 30 (μA) (after 3min)			
	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	0.27	0.23	0.20	0.19	0.17	0.15	0.12	0.10	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	16~100	100~250	350~450					
	Z-25℃ / Z+20℃	4	3	2	4	6					
	Z-40℃ / Z+20℃	8	6	4	---	---					
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 value							
	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	13	16	18	20	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
Φd	0.5			0.6		0.8			1.0	
β	1.0			1.5				2.0		
α	0.5									

MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

WV(V)	Freq.(Hz) Cap.(μF)	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(°C)	20~70	85	105
Coefficient	1.78	1.40	1.00

■ STANDARD RATINGS

[illegible][illegible]