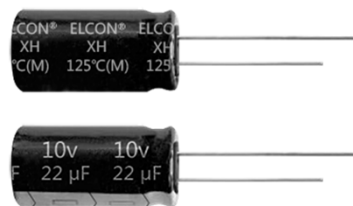


XH

Series

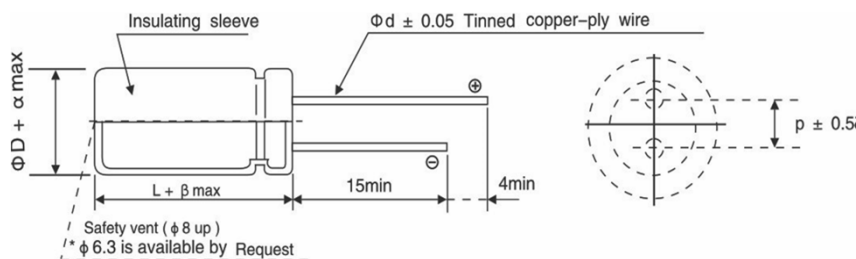
- High temperature range, for 125°C use
- Highly dependable reliability withstanding load life of 2000 hours at 125°C
- Suited for automobile electronics where heavy duty services are indispensable.



SPECIFICATIONS

Item	Characteristics	
Category Temperature Range	-40 ~ +125°C	-25 ~ +125°C
Voltage Range	10 ~ 250V.DC	350 ~ 450V.DC
NominalCap. Range	1.0 ~ 4700μF	
Capacitance Tolerance	± 20 % (at 120Hz, 20°C)	
Leakage Current	WV	10~100
	Leakage Current (After 1 minutes)	I=0.03CV or 4(μA) whichever is greater
		160~450 CV≤1000:I=0.1CV+40(μA) CV>1000:I=0.04CV+100(μA)
where,I: max.leakage current(μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C)		
Dissipation Factor (MAX) (tanδ) (at120Hz, 20°C)	WV	10 16 25 35 50 63 80 100 160~250 350~450
	tanδ	0.2 0.16 0.14 0.12 0.10 0.10 0.08 0.08 0.20 0.24
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	10 16~100 160~250 350~450
	Z-25°C / Z+20°C	3 2 3 6
	Z-40°C / Z+20°C	4 4 6 --
Endurance	After 2000 hours application of DC rated voltage at 125°C, the capacitor shall meet the following limits.	
	Capacitance change	≤ ±30% of the initial value
	Dissipation Factor	≤300% of the initial specified value
	Leakage Current	≤ the initial specified value
Shelf Life	After leaving capacitors under no load at 125°C for 1000 hours, they meet the requirements for endurance characteristics listed above.	

DRAWING



Unit: (mm)

φ D	8	10	13	16	18
P	3.5	5.0	5.0	7.5	7.5
φ d	0.6	0.6	0.8		
β	1.0	1.5	2.0		
α	0.5				

MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz)	120	300	1K	10K	100K
CV					
CV < 1000	0.50	0.64	0.83	0.90	1.00
CV ≥ 1000	0.67	0.79	0.91	0.95	1.00

(2) Temperature Coefficient

Ambient Temperature(°C)	70	85	85	105	125
Coefficient	2.40	2.10	1.78	1.65	1.00

XH Series

STANDARD RATINGSRipple Current :(mArms) at 125℃ 100Hz;Case Size ΦD*L(mm)

cap (μf)	10V			16V			25V			35V			50V		
	ΦDxL (mm)	Impedance (Ω,MAX) 20℃ 100KHz	Ripple Current	ΦDxL (mm)	Impedance (Ω,MAX) 20℃ 100KHz	Ripple Current	ΦDxL (mm)	Impedance (Ω,MAX) 20℃ 100KHz	Ripple Current	ΦDxL (mm)	Impedance (Ω,MAX) 20℃ 100KHz	Ripple Current	ΦDxL (mm)	Impedance (Ω,MAX) 20℃ 100KHz	Ripple Current
1													8x11.5	2	35
2.2													8x11.5	1.8	50
3.3													8x11.5	1.5	60
4.7													8x11.5	1.15	85
10													8x11.5	0.75	180
22													8x11.5	0.5	250
33													8x11.5	0.45	300
47													8x11.5	0.35	440
100				8x11.5	0.32	340	8x11.5	0.13	500	10x12.5	0.15	620	10x12.5	0.18	555
220	8x11.5	0.26	340	10x12.5	0.15	620	10x12.5	0.1	680	10x16	0.094	790	10x20	0.098	930
330	10x12.5	0.15	620	10x12.5	0.1	680	10x16	0.075	945	10x20	0.075	950	13x20	0.07	1330
470	10x12.5	0.1	680	10x16	0.075	945	10x20	0.057	1100	13x20	0.058	1330	13x25	0.055	1650
1000	10x20	0.057	1100	13x20	0.042	1490	13x25	0.033	1750	16x25	0.031	2010	16x31	0.031	2430
2200	13x25	0.033	1750	16x25	0.024	2300	16x31	0.02	2710	18x36	0.025	2790			
3300	16x25	0.024	2300	16x31	0.02	2710	18x32	0.017	3310						
4700	16x31	0.02	2710	18x32	0.018	3270									

cap (μf)	63			80			100		
	ΦDxL (mm)	Impedance (Ω,MAX) 20℃ 100KHz	Ripple Current	ΦDxL (mm)	Impedance (Ω,MAX) 20℃ 100KHz	Ripple Current	ΦDxL (mm)	Impedance (Ω,MAX) 20℃ 100KHz	Ripple Current
4.7							8x11.5	2	130
10							8x11.5	1.5	150
22	8x11.5	2	130	8x11.5	1.5	150	10x12.5	0.8	480
33	8x11.5	1.5	150	10x12.5	0.8	480	10x12.5	0.8	480
47	10x12.5	0.59	530	10x12.5	0.8	480	10x16	0.55	630
100	10x16	0.41	690	10x20	0.39	790	13x20	0.25	990
220	13x20	0.16	1050	13x25	0.18	1240	16x25	0.11	1500
330	13x25	0.12	1290	13x30	0.16	1390	16x31	0.079	1790
470	13x30	0.097	1460	16x25	0.11	1500			

XH

Series

■ STANDARD RATINGS

[illegible]