

HF Series Flame Retardant Type at 105°C

Features

- ◆ Flame Retardant type capacitor with high temperature.
- ◆ Best for switching power supplies, etc.
- ◆ Aluminal case designed explosion-proof vent.
- ◆ RoHS Compliant
- ◆ For detail specifications, please refer to Engineering Bulletin NO. E162



Specifications

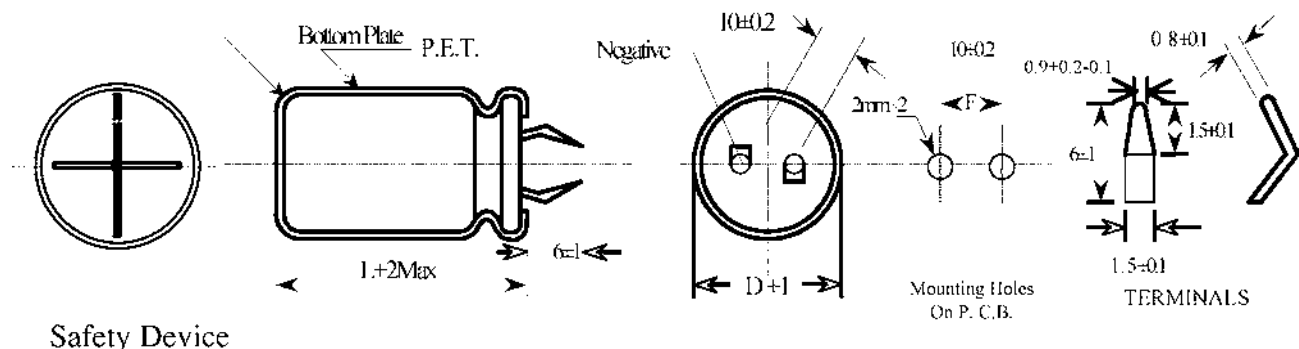
Item	Performance Characteristics					
Operating Temperature Range	-25 to +105°C					
Rated Voltage Range	400、450 VDC					
Capacitance Range	33 to 560 µF					
Capacitance Tolerance	±20%(120Hz,+20°C)					
Leakage Current (+20°C,max.)	I ≤ 0.02 CV (µA) After 5 minute with rated working voltage applied.					
Dissipation Factor (tan δ , at 20°C , 120Hz)	Less than the value under table (%)					
	<table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>400</td> <td>450</td> </tr> <tr> <td>D.F.(%)max.</td> <td colspan="2">25</td> </tr> </table>	Working Voltage(VDC)	400	450	D.F.(%)max.	25
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Low Temperature Characteristics (at 120Hz)	Impedance ratio max.					
	<table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td colspan="2">12</td> </tr> </table>	Working Voltage(VDC)	400	450	Z-25°C / Z+20°C	12
Working Voltage(VDC)	400	450				
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Load Life	Test condition Duration time :2000 Hrs Ambient temperature :+105°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change : ≤ ±20% of the initial measured value Dissipation factor : ≤ 200% of the initial specified value Leakage current : ≤ The initial specified value					
Shelf Life	Test condition Duration time :1000 Hrs Ambient temperature :+105°C Applied voltage :None After test requirement at +20°C:Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.					

Flame Retardant

Multiplier for Ripple Current vs. Frequency

CAP(µF)\Frequency(Hz)	50(60)	120	400	1K	10K	50K-100K
CAP ≤ 10	0.8	1	1.23	1.36	1.48	1.53
10 < CAP ≤ 100	0.8	1	1.16	1.25	1.35	1.38
100 < CAP	0.8	1	1.11	1.17	1.25	1.28

Diagram of Dimensions:(unit:mm)



Case Size

φ DxL(mm)

WV(SV) Cap (μF)	400 (450)								450 (500)								
	22		25		30		35		22		25		30		35		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Ripple	Size	Ripple	Size	Ripple	Ripple	Size	Ripple	
33	22×26	0.39								22×26	0.24						
47	22×26	0.56	25×26	0.56						22×31	0.35	25×26	0.35				
56	22×26	0.63	25×26	0.68						22×31	0.41	25×26	0.41				
	22×31	0.68															
68	22×31	0.72	25×26	0.72	30×26	0.72				22×36	0.55	25×31	0.55	30×26	0.55		
82	22×31	0.77	25×31	0.82	30×26	0.85				22×36	0.64	25×31	0.64	30×26	0.64		
	22×36	0.82															
100	22×36	0.82	25×31	0.82	30×26	0.82				22×41	0.74	25×31	0.74	30×31	0.74		
120	22×36	0.90	25×31	0.90	30×26	0.90				22×46	0.82	25×36	0.82	30×31	0.82		
150	22×41	0.98	25×36	0.98	30×31	0.95	35×27	0.95		22×51	0.96	25×41	0.96	30×36	0.96	35×27	0.96
180	22×46	1.14	25×41	1.14	30×36	1.14	35×32	1.14			25×46	1.14	30×36	1.10	35×32	1.14	
													30×41	1.16			
220			25×46	1.21	30×41	1.21	35×32	1.21					30×41	1.24	35×37	1.24	
270					30×46	1.40	35×37	1.40					30×51	1.48	35×42	1.48	
330					30×51	1.57	35×42	1.57							35×47	1.64	
390							35×42	1.71							35×52	1.86	
							35×47	1.79									
470							35×47	1.94									
							35×52	2.03									
560							35×52	2.23									

Ripple Current (A, rms) at 105°C 120Hz