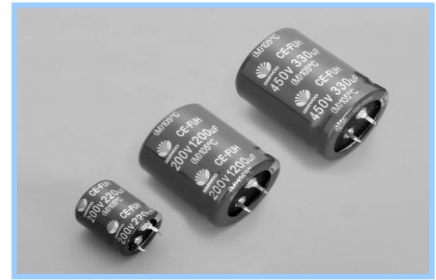


FUH SERIES

105°C, Standard, PCB terminal type

■ Features

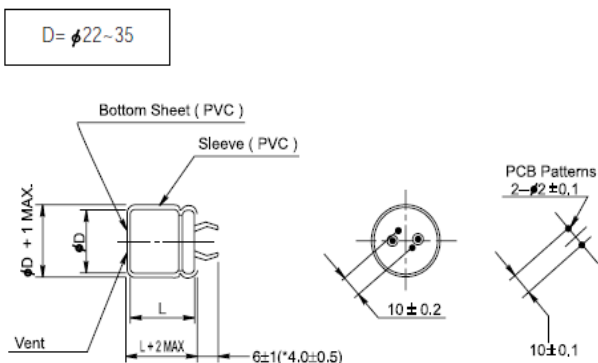
- 105°C, Standard, Snap-in terminal
- PCB Mounting
- High and stable quality
- Load life of 2,000 hours at 105°C



■ Specifications

Item	Performance Characteristics						
Operating temperature range	-40°C ~ +105°C			-25°C ~ +105°C			
Rated working voltage range	10V ~ 250V			350V ~ 500V			
Nominal capacitance range	47 μF ~ 47,000 μF , ±20% (at 20°C, 120Hz)						
D.C Leakage current(at 20°C)	The following specifications shall be satisfied when the rated voltage is applied for the required time $I \leq 0.02CV$ or 2mA (5min), whichever is less. Where I = Leakage current(μA) C = Nominal capacitance(μF) V = Rated voltage (V)						
Tan δ (max., at 20°C, 120Hz)	W.V	10~16	25~35	50~80	100	160~400	450~500
	Tan δ	0.40	0.35	0.25	0.20	0.15	0.20
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V(V)	10~16	35~100	160~250	350~500		
	Z-25°C/Z+20°C	4	3	3	8		
	Z-40°C/Z+20°C	12	6	6	-		
Load life	After applying rated working voltage for 2,000 hours at +105°C and then listed being stabilized at +20°C, capacitors shall meet following limits.						
	Capacitance change	Within ± 20% of the initial measured value					
	Tan δ	≤ 200% of the initial specified value					
	Leakage current	≤ The initial specified value					
Shelf life	After storage for 1,000hours at + 105°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.						
	Capacitance change	Within ± 20% of the initial measured value					
	Tan δ	≤ 200% of the initial specified value					
	Leakage current	≤ The initial specified value					

■ Dimensions



* Shorter terminal is available upon request

■ Ripple current coefficient

• Frequency

W.V(V)	Freq(Hz)	50	120	1K	10K	100K
16~100		0.90	1.00	1.10	1.15	1.25
160~250		0.80	1.00	1.25	1.40	1.50
350~500		0.84	1.00	1.15	1.20	1.32

FUH SERIES

▣ Dimensions & Maximum permissible ripple current

μF	V	160				180				200				250			
		Φ22	Φ25	Φ30	Φ35	Φ22	Φ25	Φ30	Φ35	Φ22	Φ25	Φ30	Φ35	Φ22	Φ25	Φ30	Φ35
150										22 x 20 0.50				22 x 25 0.60	25 x 20 0.59		
180										22 x 20 0.58	25 x 20 0.60			22 x 30 0.70	25 x 20 0.68		
220			25 x 20 0.60			22 x 20 0.80				22 x 25 0.64	25 x 20 0.64			22 x 30 0.84	25 x 25 0.83	30 x 20 0.81	
270		22 x 25 0.90	25 x 20 0.70			22 x 25 0.93	25 x 20 0.95			22 x 25 0.81	25 x 20 0.79			22 x 30 1.01	25 x 25 1.00	30 x 20 1.00	
330		22 x 25 1.10	25 x 20 1.00			22 x 30 1.05	25 x 25 1.05			22 x 30 1.10	25 x 25 1.11	30 x 20 1.10		22 x 35 1.10	25 x 30 1.10	30 x 25 1.16	35 x 20 1.07
390		22 x 30 1.20	25 x 25 1.15			22 x 30 1.20	25 x 30 1.23	30 x 20 1.22		22 x 30 1.18	25 x 25 1.18	30 x 25 1.17		22 x 40 1.33	25 x 35 1.35	30 x 25 1.32	35 x 25 1.35
470		22 x 30 1.26	25 x 25 1.23	30 x 20 1.09	35 x 20 1.25	22 x 35 1.33	25 x 35 1.33	30 x 25 1.35		22 x 35 1.29	25 x 30 1.29	30 x 25 1.30	35 x 20 1.20	22 x 45 1.37	25 x 35 1.35	30 x 30 1.40	35 x 25 1.40
560		22 x 35 1.36	25 x 30 1.41	30 x 20 1.21	35 x 20 1.27	22 x 40 1.43	25 x 35 1.43	30 x 25 1.45		22 x 45 1.44	25 x 35 1.41	30 x 30 1.45	35 x 25 1.38	22 x 50 1.61	25 x 40 1.59	30 x 30 1.58	35 x 25 1.57
680		22 x 40 1.46	25 x 30 1.57	30 x 25 1.42	35 x 20 1.53	22 x 45 1.60	25 x 40 1.62	30 x 30 1.60		22 x 45 1.57	25 x 35 1.45	30 x 30 1.58	35 x 25 1.58		25 x 50 1.64	30 x 35 1.72	35 x 30 1.75
820		22 x 45 1.73	25 x 30 1.83	30 x 25 1.54	35 x 25 1.71	22 x 50 1.82	25 x 45 1.82	30 x 30 1.80	35 x 30 1.85		25 x 45 1.73	30 x 35 1.74	35 x 30 1.76		25 x 60 2.00	30 x 40 1.90	35 x 35 1.78
1,000		22 x 50 1.88	25 x 40 2.02	30 x 30 1.85	35 x 25 2.00		25 x 50 2.10	30 x 35 2.12	35 x 35 2.10		25 x 50 2.01	30 x 40 2.13	35 x 35 2.15			30 x 50 2.03	35 x 40 2.04
1,200			25 x 45 2.15	30 x 35 2.01	35 x 30 2.21			30 x 40 2.35	35 x 40 2.35		25 x 60 2.25	30 x 45 2.23	35 x 35 2.25			30 x 60 2.20	35 x 45 2.15
1,500			25 x 50 2.63	30 x 40 2.50	35 x 35 2.53				35 x 45 2.70			30 x 50 2.81	35 x 40 2.80				35 x 50 2.45
1,800				30 x 45 2.86	35 x 35 2.93				35 x 50 3.15			30 x 60 3.03	35 x 45 3.00				
2,200				30 x 60 3.34	35 x 45 3.28								35 x 60 3.20				

μF	V	350				400				450				500			
		Φ22	Φ25	Φ30	Φ35	Φ22	Φ25	Φ30	Φ35	Φ22	Φ25	Φ30	Φ35	Φ22	Φ25	Φ30	Φ35
47										22 x 25 0.35							
56										22 x 25 0.40	25 x 25 0.40			22 x 35 0.44	25 x 30 0.44	30 x 25 0.46	
68						22 x 25 0.47	25 x 20 0.42			22 x 30 0.46	25 x 25 0.46			22 x 35 0.43	25 x 35 0.47	30 x 25 0.49	
82		22 x 25 0.50				22 x 30 0.50	25 x 20 0.49			22 x 30 0.50	25 x 25 0.50	30 x 25 0.50		22 x 35 0.55	25 x 35 0.52	30 x 25 0.52	
100		22 x 30 0.60	25 x 25 0.60			22 x 35 0.61	25 x 25 0.61	30 x 20 0.56		22 x 35 0.58	25 x 30 0.58	30 x 25 0.60		22 x 40 0.55	25 x 40 0.60	30 x 25 0.61	
120		22 x 30 0.70	25 x 25 0.70			22 x 40 0.70	25 x 30 0.70	30 x 25 0.70	35 x 20 0.65	22 x 40 0.64	25 x 35 0.65	30 x 30 0.66	35 x 25 0.67	22 x 40 0.63	25 x 40 0.65	30 x 25 0.66	35 x 30 0.68
150		22 x 35 0.74	25 x 30 0.74	30 x 25 0.74		22 x 45 0.74	25 x 30 0.72	30 x 25 0.74	35 x 20 0.72	22 x 45 0.70	25 x 40 0.68	30 x 30 0.69	35 x 25 0.68		25 x 40 0.72	30 x 35 0.70	35 x 35 0.71
180		22 x 40 0.79	25 x 30 0.79	30 x 25 0.81		22 x 50 0.80	25 x 35 0.80	30 x 30 0.81	35 x 25 0.82		25 x 45 0.76	30 x 35 0.79	35 x 30 0.80		25 x 45 0.90	30 x 40 0.80	35 x 40 0.83
220		22 x 45 0.83	25 x 35 0.83	30 x 30 0.83	35 x 25 0.80	22 x 45 0.91	25 x 40 0.89	30 x 30 0.88	35 x 25 0.92		25 x 50 0.90	30 x 40 0.90	35 x 30 0.92		25 x 50 1.10	30 x 45 1.00	35 x 45 1.01
270		22 x 50 1.00	25 x 40 0.98	30 x 30 0.96	35 x 25 1.00		25 x 45 1.00	30 x 35 1.00	35 x 30 1.04		25 x 60 1.01	30 x 45 1.00	35 x 35 1.01				35 x 50 1.16
330			25 x 45 1.12	30 x 40 1.12	35 x 30 1.15		25 x 50 1.13	30 x 40 1.14	35 x 35 1.21			30 x 50 1.14	35 x 40 1.14				35 x 60 1.30
390			25 x 60 1.23	30 x 40 1.18	35 x 35 1.23		25 x 60 1.31	30 x 45 1.29	35 x 35 1.27			30 x 60 1.40	35 x 45 1.36				
470			25 x 60 1.50	30 x 45 1.47	35 x 40 1.45			30 x 50 1.43	35 x 40 1.42				35 x 50 1.52				
560				35 x 50 1.63	35 x 50 1.62			30 x 60 1.62	35 x 50 1.62				35 x 60 1.76				
680				35 x 60 1.98	35 x 60 1.98				35 x 60 1.99								

Case size : ΦD x L(mm)
Maximum permissible ripple current[A(rms) at 105°C, 120Hz]