

## FVC Series

105°C · 125°C · 135°C

High Ripple Current

High Capacitance

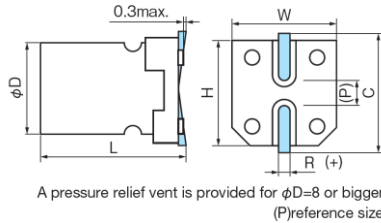
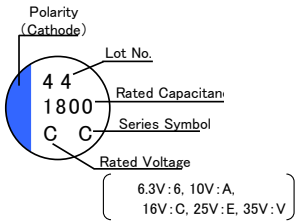
- 105°C: 4000hours, 125°C: 4,000hours, 135°C: 4,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200



### Specifications

Items	Condition	Specifications				
Rated voltage (V)	—	6.3	10	16	25	35
Surge voltage (V)	Room temperature	8.0	13	20	32	44
Category temperature range (°C)	—	Φ5, Φ6.3 : -55 to +125 Φ8, Φ10 : -55 to +135				
Capacitance tolerance (%)	120Hz/20°C	M: ±20				
Dissipation Factor (tan δ)	tan δ (max.) 120Hz/20°C	0.18	0.16	0.16	0.14	0.12
Leakage current (LC)	μA/after 2 minutes (max.), 20°C	6.3V, 10V : The greater value of either 0.05CV or 100 16V, 25V, 35V : 0.01CV				
Endurance	105°C, 125°C, 135°C rated voltage applied (With the rated ripple current)	Test	4,000hours			
		ΔC/C	Within ±30% of the initial value			
		tan δ	Less than 200% of the specified value			
		ESR	Less than 200% of the specified value			
LC	Less than the specified value					
Shelf Life	ΦD ≤ 6.3: 125°C, ΦD ≥ 8: 135°C, 1000hours (with no voltage load)	Shall meet the endurance spec above after voltage treatment at 20deg.C per JIS C 5101-4 4.1.				

### Marking, Dimensions



(Unit: mm)

D ±0.6	L ±0.3	W ±0.2	H ±0.2	C ±0.2	R	P
5	6.0	5.3	5.3	6.0	0.5~0.8	1.4
6.3	6.0	6.6	6.6	7.3	0.5~0.8	2.2
6.3	7.7	6.6	6.6	7.3	0.5~0.8	2.2
8	10.5	8.3	8.3	9.0	0.7~1.0	3.2
10	10.5	10.3	10.3	11.0	1.0~1.4	4.6
10	12.5	10.3	10.3	11.0	1.0~1.4	4.6
10	13.8	10.3	10.3	11.0	1.0~1.4	4.6
10	16.5	10.3	10.3	11.0	1.0~1.4	4.6

### Size, ESR, Rated Ripple Current

Items μF	Case size φD × L (mm)	ESR (mΩ max.) (20°C/100kHz)	6.3			10				
			Rated ripple current (mA rms/100kHz)	105°C	125°C	135°C	Rated ripple current (mA rms/100kHz)	105°C	125°C	135°C
150						5 × 6.0	60	2800	1000	—
220	5 × 6.0	60	2800	1000	—	6.3 × 6.0	40	3600	1300	—
270						6.3 × 6.0	40	3600	1300	—
390	6.3 × 6.0	40	3600	1300	—	6.3 × 7.7	28	4200	1500	—
560	6.3 × 7.7	28	4200	1500	—					
820						8 × 10.5	18	6000	3700	1800
1200	8 × 10.5	18	6000	3700	1800					
1500						10 × 10.5	16	6500	4000	1900
1800						10 × 12.5	14	7000	4400	2100
2200	10 × 10.5	16	6500	4000	1900	10 × 13.8	12	7800	4900	2300
2700	10 × 12.5	14	7000	4400	2100	10 × 16.5	10	8400	5200	2500
3300	10 × 13.8	12	7800	4900	2300					
3900	10 × 16.5	10	8400	5200	2500					

Items μF	Case size φD × L (mm)	ESR (mΩ max.) (20°C/100kHz)	16			25			35						
			Rated ripple current (mA rms/100kHz)	105°C	125°C	135°C	Rated ripple current (mA rms/100kHz)	105°C	125°C	135°C	Rated ripple current (mA rms/100kHz)	105°C	125°C	135°C	
220											8 × 10.5	27	—	3100	1500
330						8 × 10.5	27	—	3100	1500					
390						8 × 10.5	27	—	3100	1500	10 × 10.5	20	—	3600	1750
470											10 × 12.5	16	—	4100	1950
560	8 × 10.5	27	—	3100	1500	10 × 10.5	20	—	3600	1750	10 × 13.8	15	—	4300	2050
680						10 × 10.5★	20	—	3600	1750	10 × 16.5	11	—	5200	2500
						10 × 12.5	16	—	4100	1950					
820						10 × 12.5★	16	—	4100	1950					
						10 × 13.8	15	—	4300	2050					
1000	10 × 10.5	20	—	3600	1750	10 × 13.8★	15	—	4300	2050					
						10 × 16.5	11	—	5200	2500					
1200	10 × 12.5	16	—	4100	1950	10 × 16.5	11	—	5200	2500					
1500	10 × 13.8	15	—	4300	2050										
1800	10 × 16.5	11	—	5200	2500										

★: S type

### Part number

