

# FVC Series

105°C·125°C·135°C

High Ripple Current,  
High Capacitance



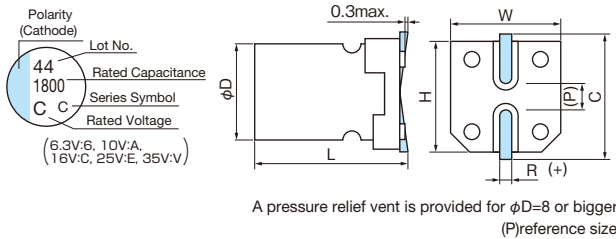
- 105°C 4000hours, 125°C 4,000hours, 135°C 4,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200



## 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)	tanδ (max.) 120Hz/20°C	0.18	0.16	0.16	0.14	0.12
Leakage current (LC)	μA/after 2minutes (max.) (20°C)	≤ 10V	The greater value of either 0.05CV or 100			
		16V ≤	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			
		tanδ	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, 1,000hours (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)

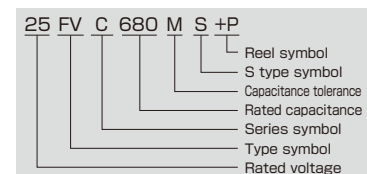
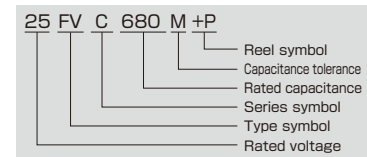
D <sup>+0.5</sup>	L <sup>+0.3</sup>	W <sup>+0.2</sup>	H <sup>+0.2</sup>	C <sup>+0.2</sup>	R	P
5	6.0	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	6.0	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.5	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.5	10.3	10.3	11.0	1.0 to 1.4	4.6
10	12.5	10.3	10.3	11.0	1.0 to 1.4	4.6
10	13.8	10.3	10.3	11.0	1.0 to 1.4	4.6
10	16.5	10.3	10.3	11.0	1.0 to 1.4	4.6

## Size, ESR, Rated Ripple Current

V Items μF	6.3						10						16						
	Case size φDxL (mm)	ESR (mΩmax.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size φDxL (mm)	ESR (mΩmax.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size φDxL (mm)	ESR (mΩmax.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)						
			105°C	125°C	135°C			105°C	125°C	135°C			105°C	125°C	135°C				
150					5x6.0	60	2800	1000	—	6.3x6.0	40	3600	1300	—					
220	5x6.0	60	2800	1000	—	6.3x6.0	40	3600	1300	—									
270					6.3x6.0	40	3600	1300	—	6.3x7.7	28	4200	1500	—					
390	6.3x6.0	40	3600	1300	—	6.3x7.7	28	4200	1500	—									
560	6.3x7.7	28	4200	1500	—						8x10.5	27	—	3100	1500				
820					8x10.5	18	6000	3700	1800										
1000											10x10.5	20	—	3600	1750				
1200	8x10.5	18	6000	3700	1800						10x12.5	16	—	4100	1950				
1500					10x10.5	16	6500	4000	1900		10x13.8	15	—	4300	2050				
1800					10x12.5	14	7000	4400	2100		10x16.5	11	—	5200	2500				
2200	10x10.5	16	6500	4000	1900	10x13.8	12	7800	4900	2300									
2700	10x12.5	14	7000	4400	2100	10x16.5	10	8400	5200	2500									
3300	10x13.8	12	7800	4900	2300														
3900	10x16.5	10	8400	5200	2500														

V Items μF	25						35												
	Case size φDxL (mm)	ESR (mΩmax.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size φDxL (mm)	ESR (mΩmax.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)											
			105°C	125°C	135°C			105°C	125°C	135°C									
220					8x10.5	27	—	3100	1500										
330	8x10.5	27	—	3100	1500														
390	8x10.5	27	—	3100	1500	10x10.5	20	—	3600	1750									
470					10x12.5	16	—	4100	1950										
560	10x10.5	20	—	3600	1750	10x13.8	15	—	4300	2050									
680	10x10.5★	20	—	3600	1750	10x16.5	11	—	5200	2500									
	10x12.5	16	—	4100	1950														
820	10x12.5★	16	—	4100	1950														
	10x13.8	15	—	4300	2050														
1000	10x13.8★	15	—	4300	2050														
	10x16.5	11	—	5200	2500														
1200	10x16.5	11	—	5200	2500														

## Part number



Please refer to page 18 for ripple current frequency coefficients.

★S type