

FVC

Series

105°C • 125°C • 135°C

High Capacitance
High Ripple Current

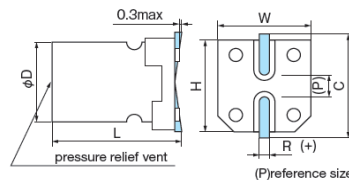
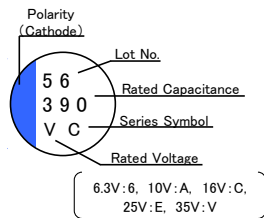
- 105°C 4,000hours • 10,000hours、125°C 4,000hours、135°C 4,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200

UP GRADE

■ Specifications

Items			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)	—		ϕ 5, ϕ 6.3 : -55 to +125 ϕ 8, ϕ 10: -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)	μ A/after 2 minutes (max.)(20°C)	≤10V	The greater value of either 0.05CV or 100				
		16V≤	0.01CV				
Endurance	rated voltage applied (With the rated ripple current)	Test	105°C : 4,000hours・10,000hours 125°C : 4,000hours 135°C : 4,000hours				
		Δ C/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	ϕ D≤6.3 : 125°C ϕ D≥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 ± 0.5	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 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

Case size φ D × L (mm)	Items	6.3						10						16					
		Capacitance (μ F)	ESR (mΩ max.) 20℃/100kHz	Rated ripple current (mA rms/100kHz)				Capacitance (μ F)	ESR (mΩ max.) 20℃/100kHz	Rated ripple current (mA rms/100kHz)				Capacitance (μ F)	ESR (mΩ max.) 20℃/100kHz	Rated ripple current (mA rms/100kHz)			
				105℃		125℃	135℃			105℃		125℃	135℃			105℃		125℃	135℃
				4000hrs	10000hrs	4000hrs	4000hrs			4000hrs	10000hrs	4000hrs	4000hrs			4000hrs	10000hrs	4000hrs	4000hrs
5 × 6.0	220	60	2800		1000	—	150	60	2800		1000	—	100	80	—	—	1000	—	
6.3 × 6.0	390	40	3600	—	1300	—	220	40	3600	—	1300	—	180	45	—	—	1300	—	
							270	40	3600	—	1300	—							
6.3 × 7.7	560	28	4200	2700	1500	—	390	28	4200	2700	1500	—	270	30	—	—	1500	—	
8 × 10.5	1200	18	6000	4600	3700	1800	820	18	6000	4600	3700	1800	560	27	—	—	3100	1500	
10 × 10.5	2200	16	6500	5000	4000	1900	1500	16	6500	5000	4000	1900	1000	20	—	—	3600	1750	
10 × 12.5	2700	14	7000	5400	4400	2100	1800	14	7000	5400	4400	2100	1200	16	—	—	4100	1950	
10 × 13.8	3300	12	7800	6000	4900	2300	2200	12	7800	6000	4900	2300	1500	15	—	—	4300	2050	
10 × 16.5	3900	10	8400	6500	5200	2500	2700	10	8400	6500	5200	2500	1800	11	—	—	5200	2500	

Case size φ D × L (mm)	Items	25						35								
		Capacitance (μ F)	ESR (mΩ max.) 20°C/100kHz	Rated ripple current (mA rms/100kHz)				Capacitance (μ F)	ESR (mΩ max.) 20°C/100kHz	Rated ripple current (mA rms/100kHz)						
				105°C		125°C	135°C			105°C		125°C	135°C			
				4000hrs.	10000hrs.	4000hrs.	4000hrs.			4000hrs.	10000hrs.	4000hrs.	4000hrs.			
5 × 6.0	68	80	—	—	1000	—	—	—	—	—	—	—	—	—	—	
6.3 × 6.0	120	50	—	—	1300	—	68	50	—	—	1200	—	82	50	—	—
6.3 × 7.7	180	30	—	—	1400	—	120	30	—	—	1400	—	—	—	—	—
8 × 10.5	330	27	—	—	3100	1500	220	27	—	—	3100	1500	—	—	—	—
	390	27	—	—	3100	1500										
10 × 10.5	560	20	—	—	3600	1750	390	20	—	—	3600	1750	—	—	—	—
	680★	20	—	—	3600	1750										
10 × 12.5	680	16	—	—	4100	1950	470	16	—	—	4100	1950	—	—	—	—
	820★	16	—	—	4100	1950										
10 × 13.8	820	15	—	—	4300	2050	560	15	—	—	4300	2050	—	—	4300	2050
	1000★	15	—	—	4300	2050										
10 × 16.5	1000	11	—	—	5200	2500	680	11	—	—	5200	2500	—	—	5200	2500
	1200	11	—	—	5200	2500										

★ S type

■ Part number

