

FVCL Series

105°C · 125°C · 135°C

High Capacitance

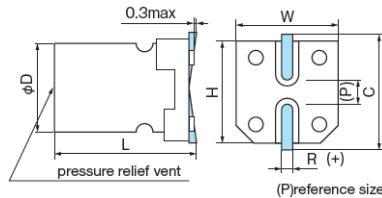
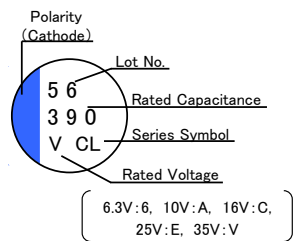
- 105°C 5,000hours • 10,000hours、125°C 4,000hours、135°C 2,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200



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)	—	-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.)	≤10V : 0.05CV		16V ≤ : 0.01CV		
Endurance	rated voltage applied (With the rated ripple current)	Test	105°C 5,000hours • 10,000hours 125°C 4,000hours、135°C 2,000hours			
		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	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 ±0.5	L ±0.3	W ±0.2	H ±0.2	C ±0.2	R	P
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

Items Case size φD × L(mm)	6.3							10							16									
	Capacitance (μF)	ESR (mΩ max.) 20°C/100kHz	Rated ripple current (mArms/100kHz)				Capacitance (μF)	ESR (mΩ max.) 20°C/100kHz	Rated ripple current (mArms/100kHz)				Capacitance (μF)	ESR (mΩ max.) 20°C/100kHz	Rated ripple current (mArms/100kHz)									
			105°C		125°C				135°C		105°C				125°C		135°C		105°C		125°C		135°C	
			5000hrs.	10000hrs.	4000hrs.	2000hrs.			5000hrs.	10000hrs.	4000hrs.	2000hrs.			5000hrs.	10000hrs.	4000hrs.	2000hrs.	5000hrs.	10000hrs.	4000hrs.	2000hrs.		
8 × 10.5	1200	18	4700	3600	2400	2400	820	18	4700	3600	2400	2400	560	27	3700	2800	1900	1900						
10 × 10.5	2200	16	5100	3900	2700	2700	1500	16	5100	3900	2700	2700	1000	20	4200	3200	2200	2200						
10 × 12.5	2700	14	5700	4300	2900	2900	1800	14	5700	4300	2900	2900	1200	16	4900	3700	2500	2500						
10 × 13.8	3300	12	6200	4700	3200	3200	2200	12	6200	4700	3200	3200	1500	15	5100	3900	2700	2700						
10 × 16.5	3900	10	6700	5100	3500	3500	2700	10	6700	5100	3500	3500	1800	11	5500	4200	2900	2900						

Items Case size φD × L(mm)	25							35								
	Capacitance (μF)	ESR (mΩ max.) 20°C/100kHz	Rated ripple current (mArms/100kHz)				Capacitance (μF)	ESR (mΩ max.) 20°C/100kHz	Rated ripple current (mArms/100kHz)							
			105°C		125°C				135°C		105°C		125°C		135°C	
			5000hrs.	10000hrs.	4000hrs.	2000hrs.			5000hrs.	10000hrs.	4000hrs.	2000hrs.	5000hrs.	10000hrs.	4000hrs.	2000hrs.
8 × 10.5	390	27	3700	2800	1900	1900	220	27	3700	2800	1900	1900				
10 × 10.5	680	20	4200	3200	2200	2200	390	20	4200	3200	2200	2200				
10 × 12.5	820	16	4900	3700	2500	2500	470	16	4900	3700	2500	2500				
10 × 13.8	1000	15	5100	3900	2700	2700	560	15	5100	3900	2700	2700				
10 × 16.5	1200	11	5500	4200	2900	2900	680	11	5500	4200	2900	2900				

Part number

