

FVF Series

150°C Long Life

High Ripple Current



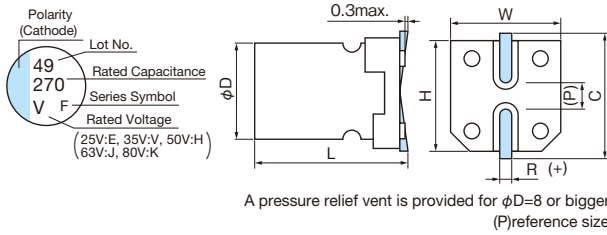
UPGRADE

- 125°C 4,000hours, 135°C 4,000hours, 150°C 4,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200

■ Specifications

Items	Condition	Specifications					
Rated voltage (V)	—	25	35	50	63	80	
Surge voltage (V)	Room temperature	32	44	63	79	100	
Category temperature range (°C)	—	φD=6.3 : -55 to +135 φD≥8 : -55 to +150					
Capacitance tolerance (%)	120Hz/20°C	M : ±20					
Dissipation Factor (tan δ)	tanδ (max.) 120Hz/20°C	0.14	0.12	0.10	0.08	0.08	
Leakage current (LC)	μA/after 2minutes (max.), 20°C	0.01CV					
Endurance	150°C rated voltage applied (With the rated ripple current) φD≥8	Test	4,000hours				
		ΔC/C	Within ±35% of the initial value				
		tanδ	Less than 200% of the specified value				
		ESR	Less than 250% of the specified value				
	125°C, 135°C rated voltage applied (With the rated ripple current)	LC	Less than the specified value				
		Test	4,000hours				
		ΔC/C	Within ±30% of the initial value				
		tanδ	Less than 200% of the specified value				
Shelf Life	φD=6.3 : 135°C, φD≥8 : 150°C, 1,000hours(with no voltage load)	ESR	Less than 200% of the specified value				
		LC	Less than the specified value				
		Shall meet the endurance spec above after voltage treatment at 20deg.C per JIS C 5101-4 4.1.					

■ Marking, Dimensions



(Unit : mm)

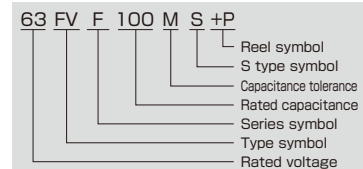
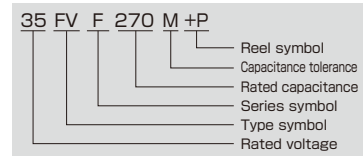
D ^{+0.5}	L ^{+0.3}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P
6.3	7.7	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.5	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.5	10.3	10.3	11.0	1.0 to 1.4	4.6
10	12.5	10.3	10.3	11.0	1.0 to 1.4	4.6
10	13.8	10.3	10.3	11.0	1.0 to 1.4	4.6
10	16.5	10.3	10.3	11.0	1.0 to 1.4	4.6

■ Size, ESR, Rated Ripple Current

V Items μF	25						35						50					
	Case size φDxL (mm)	ESR (mΩmax.) (20C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size φDxL (mm)	ESR (mΩmax.) (20C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size φDxL (mm)	ESR (mΩmax.) (20C/100kHz)	Rated ripple current (mA rms/100kHz)					
			125°C	135°C	150°C			125°C	135°C	150°C			125°C	135°C	150°C			
33																		
68					6.3x7.7	35	2700	1800	—			6.3x7.7	40	2200	1500	—		
100	6.3x7.7	30	2700	1800	—							8x10.5	30	2900	2100	1100		
120												10x10.5	28	3600	2600	1400		
150												10x10.5	28	3600	2600	1400		
180												10x12.5	19	3900	2800	1600		
220	8x10.5	20	4000	3000	1200							10x13.8	18	4400	3100	1800		
270												10x16.5	13	5100	3700	2100		
330	10x10.5	18	4600	3400	1600													
360																		
390																		
470	10x12.5	14	5200	3900	1800													
560	10x13.8	13	5600	4200	2000													
680	10x16.5	11	6000	4500	2250													

V Items μF	63						80									
	Case size φDxL (mm)	ESR (mΩmax.) (20C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size φDxL (mm)	ESR (mΩmax.) (20C/100kHz)	Rated ripple current (mA rms/100kHz)								
			125°C	135°C	150°C			125°C	135°C	150°C						
22	6.3x7.7	60	2000	1400	—											
33						8x10.5	45	2500	1700	900						
47	8x10.5	40	2700	1900	1000											
56	8x10.5	40	2700	1900	1000	10x10.5	36	3200	2200	1100						
68						10x12.5	32	3500	2400	1300						
82	10x10.5	30	3400	2400	1250	10x13.8	28	3900	2600	1500						
100	10x10.5★ 10x12.5	30 22	3400 3700	2400 2600	1250 1450	10x16.5	16	4400	3200	1800						
120	10x12.5★ 10x13.8	22 20	3700 4100	2600 2800	1450 1700											
150	10x13.8★ 10x16.5	20 15	4100 4900	2800 3500	1700 2000											
180	10x16.5	15	4900	3500	2000											

■ Part number



Please refer to page 18 for ripple current frequency coefficients.

★S type