

# FVF Series

125 to 150°C

High Ripple Current  
Long Life



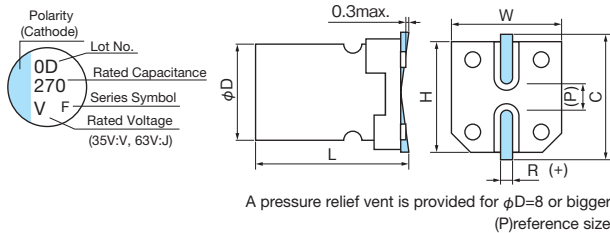
**UP GRADE**

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

## Specifications

Items	Condition	Specifications		
Rated voltage (V)	—	35	63	
Surge voltage (V)	Room temperature	44	79	
Category temperature range (°C)	$\phi D=6.3$	-40 to +135		
	$\phi D \geq 8$	-40 to +150		
Capacitance tolerance (%)	120Hz/20°C	M : $\pm 20$		
Dissipation Factor (tan $\delta$ )	tan $\delta$ (max.) 120Hz/20°C	0.12	0.08	
Leakage current (LC)	$\mu A$ /after 2minutes (max.)	0.01CV		
Endurance	150°C rated voltage applied (With the rated ripple current)	Test	4,000hours	
		$\Delta C/C$	Within $\pm 35\%$ of the initial value	
		tan $\delta$	Less than 200% of the specified value	
		ESR	Less than 250% of the specified value	
		LC	Less than the specified value	
	125°C, 135°C rated voltage applied (With the rated ripple current)	Test	4,000hours	
		$\Delta C/C$	Within $\pm 30\%$ of the initial value	
		tan $\delta$	Less than 200% of the specified value	
		ESR	Less than 200% of the specified value	
		LC	Less than the specified value	

## Marking, Dimensions



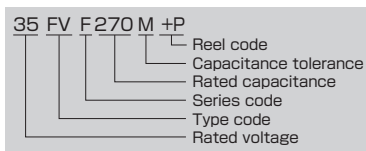
(Unit : mm)						
D $\pm 0.5$	L $\pm 0.3$	W $\pm 0.2$	H $\pm 0.2$	C $\pm 0.2$	R	P
6.3	7.7	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.5	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.5	10.3	10.3	11.0	1.0 to 1.4	4.6
10	12.5	10.3	10.3	11.0	1.0 to 1.4	4.6
10	13.8	10.3	10.3	11.0	1.0 to 1.4	4.6
10	16.5	10.3	10.3	11.0	1.0 to 1.4	4.6

## Size, ESR, Rated Ripple Current

Items $\mu F$	Case size $\phi D \times L$ (mm)	ESR ( $\Omega$ max.) (20°C/100kHz)	35			63				
			Rated ripple current (mA rms/100kHz)			Case size $\phi D \times L$ (mm)	ESR ( $\Omega$ max.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)		
			125°C	135°C	150°C			125°C	135°C	150°C
47					8x10.5	40	2700	1900	1000	
68	6.3x7.7	35	2700	1800	—					
82					10x10.5	30	3400	2400	1250	
100					10x12.5	22	3700	2600	1450	
120					10x13.8	20	4100	2800	1700	
150	8x10.5	20	3500	2500	1200	10x16.5	15	4900	3500	2000
270	10x10.5	18	4000	3100	1600					
330	10x12.5	14	4700	3400	1800					
360	10x13.8	13	5200	3700	2000					
470	10x16.5	11	5700	4100	2250					

Please refer to page 18 for ripple current frequency coefficients.

## Part number



Soldering Condition  
Reflow Soldering  
Condition  
Ripple Current Frequency  
Coefficient

HVA

HVBF

HVH

HVP

HVT

HVHZ

HVPZ

HVHF

HVPF

HVPX

HVTX

HVPY

HVTY

HVHC **NEW**

HVPC

HVJ

FVF **NEW**

FVS **NEW**

HEHF

HEPF