DC FILTERING

FFVS* RoHS Compliant Low Inductance Range Capacitor for Power Electronics





PACKAGING MATERIAL

Self extinguishing plastic case (V0: in accordance with UL 94) filled thermosetting resin.

Self extinguishing thermosetting resin (V0: in accordance with UL 94; I3F1: in accordance with NF F 16-101).

FFVS series is a specific range of DC filtering capacitors designed for use in high frequency, high ripple applications beyond the limits of standard FFVE or FFVI.

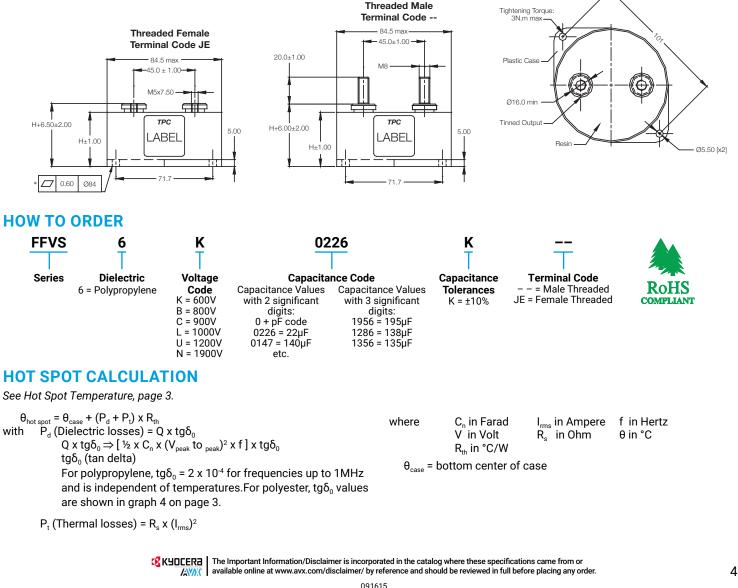
Typical applications include DC power supply for induction heating, resonant DC power supply for scanner, X-ray machines, etc.

Due to the sophisticated internal design, stray inductance is extremely low, between 8 and 13nH.

FFVS products are RoHs compliant.

DIMENSIONS

Threaded female terminals version M5 x 7.5mm are also available, To order, the suffix becomes "JE" instead of "--"





ELECTRICAL CHARACTERISTICS

Items	Characteristics				
Working temperature	-40°C +105°C (according to the power to be dissipated)				
Capacitance range C_N	22 μF to 200 μF				
Tolerance on C_N	± 10 %				
Rated dc voltage U_N dc	600V to 1900V				
Test voltage between terminals @ 25°C: 1.5 x U _N dc during 10s					
Insulation voltage between shorted terminals and earth (type test) @ 4 kVrms @ 50Hz during 1 min.					

RATINGS AND PART NUMBER REFERENCE

Part Number	Capacitance (µF)	Height mm	I _{rms} (A)	l²t (A²s)	L _s max. (nH)	R _s (mΩ)	R _{th} (°C/W)	Typical Weight (g)	
FEVS6K0226K	22	34	78	11.5	8	0.74	4.2	320	
FFVS6K0906K	90	40	84	24	9	0.60	4.9	345	
FFVS6K0147K	140	51	82	23.5	11	0.83	6.8	405	
FFVS6K1956K	195	64	84	24	13	1.04	8.6	475	
U _n dc 800 volts (Voltage Code B)									
FFVS6B0586K	58	40	83	19	9	0.72	4.9	345	
FFVS6B0926K	92	51	83	19	11	0.99	6.7	405	
FFVS6B1286K	128	64	84	19.5	13	1.25	8.5	475	
Undc 900 volts (Voltage Code C)									
FFVS6C0306K	30	34	56	7	8	1.55	4.2	320	
FFVS6C0406K	40	40	85	16.5	9	0.85	5.0	345	
FFVS6C0656K	65	51	86	17	11	1.15	6.7	405	
FFVS6C0906K	90	64	87	17	13	1.46	8.5	475	
U _n dc 1000 volts (Voltage Code L)									
FFVS6L0536K	53	40	61	9.5	9	1.56	4.9	345	
FFVS6L0956K	95	51	63	11	11	1.98	6.7	405	
FFVS6L1356K	135	64	65	11.5	13	2.42	8.3	475	
Undc 1200 volts (Voltage Code U)									
FFVS6U0406K	40	40	57	7.5	9	1.77	4.9	345	
FFVS6U0656K	65	51	57	7.5	11	2.38	6.8	405	
FFVS6U0866K	86	64	58	7	13	3.02	8.5	475	
Undc 1900 volts (Voltage Code N)									
FFVS6N0146K	14	40	66	12.5	10	1.05	4.9	345	
FFVS6N0226K	22	51	68	13.5	13	1.26	6.3	405	
FFVS6N0326K	32	64	68	13.5	16	1.58	8.1	475	

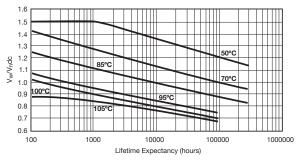
Dimensions millimeters

LIFETIME EXPECTANCY

FFVS for 600V, 800V and 900V 1.8 1.6 1.4 Vw/Vndc 1.2 95°C 70°C 1.0 0.8 0.6 100 1000 10000 100000 1000000 Lifetime Expectancy (hours)

Vw: permanent working or operating DC-voltage.





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KUCCERA available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

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