

Screw terminal type aluminum electrolytic capacitors VFH Series — Useful of 20,000 hours at 85°C



Features

- High-reliability series with the warranty of 20,000 hours realized through improvement of the VFL series into a longer-life series.
- The standard use of materials that meet the UL94-V0 and UL224VW1 standard

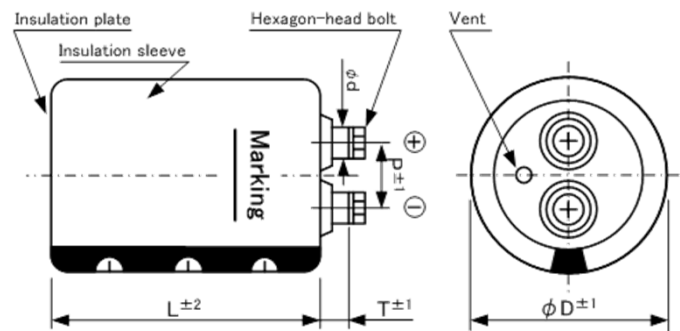
Product Specifications

Items	Specifications
Temperature range	-40~+85°C
Rated voltage	350~500V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.01CV (μA) or 5 (mA), whichever is smaller or less (20°C, 120Hz) C=nominal capacitance (μF)、V=rated voltage (V)
Endurance	After the rated voltage with specified ripple current is applied at 85°C for 20,000 hours. Capacitance change : Within ±15% of the initial value measures Dissipation factor : 175% or less than the initial value specified Leakage current : Less than or equal to the initial value specified

Dimensions

(unit : mm)

φD	P	T	φd	Hexagon-Heat bolt	Cap materials
64	28.6	8.0	11.0	M5 × 10	Phenol resin
77	31.5	8.0	11.0	M5 × 10	
90	31.5	7.0	11.0	M5 × 10	



Ripple current correction coefficient

■ Forced wind

Forced wind (m/s)	0.5>	0.5≤
Correction coefficient	1.0	1.1

■ Frequency

Frequency (Hz)	120	300	1K	10K≤
Correction coefficient	1.0	1.1	1.3	1.4

■ Temperature

Temperature (°C)	60	85
Correction coefficient	2.16	1.00

Contact us

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※The contents described are subject to change for improvement without notice.

Screw terminal type aluminum electrolytic capacitors VFH Series — Useful of 20,000 hours at 85°C

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μ F)	Case size ϕ D \times L (mm)	$\tan\delta$ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	ESR (typ.) 20°C, 100Hz (m Ω)	Z max 20°C, 10kHz (m Ω)	ESL (typ.) (nH)	Product name
350	3,300	64 \times 95	0.20	9.7	30	35	22	VFH2V332YD095
	3,900	64 \times 108	0.20	10.5	27	32	22	VFH2V392YD108
	4,700	64 \times 124	0.20	11.9	22	23	22	VFH2V472YD124
		77 \times 95	0.20	13.3	22	23	24	VFH2V472YE095
	5,600	64 \times 148	0.20	12.7	20	21	22	VFH2V562YD148
		77 \times 108	0.20	14.5	20	21	24	VFH2V562YE108
		90 \times 97	0.20	16.8	20	21	24	VFH2V562YF097
	6,800	64 \times 165	0.20	14.4	18	18	22	VFH2V682YD165
		77 \times 124	0.20	16.4	18	18	24	VFH2V682YE124
		90 \times 110	0.20	18.4	18	18	24	VFH2V682YF110
	8,200	64 \times 188	0.20	16.0	15	17	22	VFH2V822YD188
		77 \times 148	0.20	17.6	15	17	24	VFH2V822YE148
		90 \times 126	0.20	20.0	15	17	24	VFH2V822YF126
	10,000	77 \times 165	0.20	19.8	12	15	24	VFH2V103YE165
		90 \times 150	0.20	22.0	12	15	24	VFH2V103YF150
	12,000	77 \times 188	0.20	21.8	10	13	24	VFH2V123YE188
		90 \times 167	0.20	23.7	10	13	24	VFH2V123YF167
	15,000	77 \times 228	0.20	25.2	8	11	24	VFH2V153YE228
90 \times 190		0.20	26.7	8	11	24	VFH2V153YF190	
18,000	90 \times 230	0.20	28.5	6	9	24	VFH2V183YF230	
400	2,700	64 \times 95	0.20	8.8	38	40	22	VFH2G272YD095
	3,300	64 \times 108	0.20	9.7	30	35	22	VFH2G332YD108
	3,900	64 \times 124	0.20	10.8	27	32	22	VFH2G392YD124
		77 \times 95	0.20	12.1	27	32	24	VFH2G392YE095
	4,700	64 \times 148	0.20	11.7	22	23	22	VFH2G472YD148
		77 \times 108	0.20	13.3	22	23	24	VFH2G472YE108
		90 \times 97	0.20	15.4	22	23	24	VFH2G472YF097
	5,600	64 \times 165	0.20	13.1	20	21	22	VFH2G562YD165
		77 \times 124	0.20	14.9	20	21	24	VFH2G562YE124
		90 \times 110	0.20	16.7	20	21	24	VFH2G562YF110
	6,800	64 \times 188	0.20	14.5	18	18	22	VFH2G682YD188
		77 \times 148	0.20	16.0	18	18	24	VFH2G682YE148
		90 \times 126	0.20	18.3	18	18	24	VFH2G682YF126
	8,200	77 \times 188	0.20	18.0	15	17	24	VFH2G822YE188
		90 \times 150	0.20	19.9	15	17	24	VFH2G822YF150
	10,000	77 \times 228	0.20	20.6	12	15	24	VFH2G103YE228
		90 \times 167	0.20	21.6	12	15	24	VFH2G103YF167
	12,000	90 \times 190	0.20	23.9	10	13	24	VFH2G123YF190
15,000	90 \times 230	0.20	26.0	8	11	24	VFH2G153YF230	

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450	2,200	64 \times 95	0.20	8.1	42	42	22	VFH2W222YD095
		64 \times 108	0.20	9.0	42	42	22	VFH2W272YD108
	2,700	77 \times 95	0.20	10.3	42	42	24	VFH2W272YE095
		64 \times 124	0.20	10.2	35	40	22	VFH2W332YD124
	3,300	77 \times 108	0.20	11.4	35	40	24	VFH2W332YE108
		64 \times 165	0.20	11.2	27	32	22	VFH2W392YD165
		77 \times 124	0.20	12.7	27	32	24	VFH2W392YE124
	3,900	90 \times 97	0.20	14.4	27	32	24	VFH2W392YF097
		64 \times 188	0.20	12.4	24	27	22	VFH2W472YD188
		77 \times 148	0.20	13.7	24	27	24	VFH2W472YE148
	4,700	90 \times 110	0.20	15.7	24	27	24	VFH2W472YF110
		77 \times 165	0.20	15.2	24	23	24	VFH2W562YE165
		90 \times 126	0.20	17.0	24	23	24	VFH2W562YF126
	5,600	77 \times 188	0.20	16.8	20	20	24	VFH2W682YE188
		90 \times 150	0.20	18.6	20	20	24	VFH2W682YF150
6,800	77 \times 228	0.20	19.1	18	18	24	VFH2W822YE228	
	90 \times 167	0.20	20.1	18	18	24	VFH2W822YF167	
8,200	90 \times 190	0.20	22.3	15	15	24	VFH2W103YF190	
10,000	90 \times 230	0.20	23.8	13	12	24	VFH2W123YF230	
500	1,500	64 \times 124	0.20	6.5	74	80	22	VFH2H152YD124
		64 \times 148	0.20	7.0	62	50	22	VFH2H182YD148
	1,800	77 \times 108	0.20	8.0	62	50	24	VFH2H182YE108
		64 \times 165	0.20	8.0	53	50	22	VFH2H222YD165
	2,200	77 \times 124	0.20	9.1	53	50	24	VFH2H222YE124
		64 \times 188	0.20	8.9	40	35	22	VFH2H272YD188
	2,700	77 \times 148	0.20	9.9	40	35	24	VFH2H272YE148
		90 \times 110	0.20	11.3	40	35	24	VFH2H272YF110
		77 \times 148	0.20	10.9	38	32	24	VFH2H332YE148
	3,300	90 \times 126	0.20	12.4	38	32	24	VFH2H332YF126
		77 \times 165	0.20	12.1	30	27	24	VFH2H392YE165
	3,900	90 \times 150	0.20	13.4	30	27	24	VFH2H392YF150
		77 \times 188	0.20	13.3	25	20	24	VFH2H472YE188
	4,700	90 \times 167	0.20	14.5	25	20	24	VFH2H472YF167
		77 \times 228	0.20	15.0	20	17	24	VFH2H562YE228
5,600	90 \times 190	0.20	15.9	20	17	24	VFH2H562YF190	
	90 \times 230	0.20	17.1	17	17	24	VFH2H682YF230	