

# Screw terminal type aluminum electrolytic capacitors VFLR Series — Useful of 8,000 hours at 85°C



## Features

- High ripple products.
- The permissible Ripple current is improved to FXR type by 10-20% using the new heat radiation, low ESR and anode foil.
- The standard use of materials that meet the UL94-V0 and UL224VW1 standard.

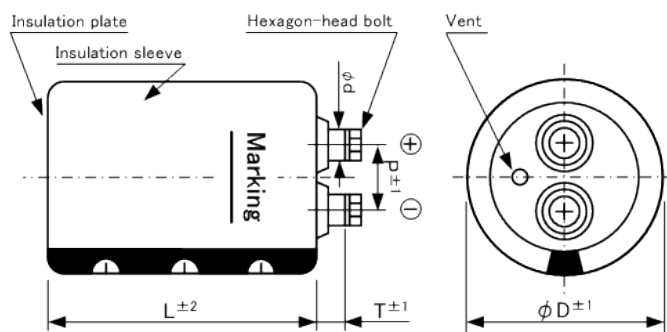
## Product Specifications

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 105°C for 5,000 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-Head bolt	Cap materials
64	28.6	8.0	11.0	M5 × 10	Phenol resin
77	31.5	9.0	12.0	M6 × 12	
90	31.5	8.0	12.0	M6 × 12	



## 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)	40	60	85
Correction coefficient	1.89	1.67	1.00

## Contact us

<http://www.hitachi-chem.co.jp>

Energy Storage & Automotive Components Business Headquarters.  
Industrial Battery System Business Sector. Capacitor Dept.

GRANTOKYO SOUTH TOWER, 1-9-2, Marunouchi, Chiyoda-ku, TOKYO, 100-6606, JAPAN TEL. +81-3-5533-7000 FAX. +81-3-5533-7077

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

# Screw terminal type aluminum electrolytic capacitors

## VFLR Series — Useful of 8,000 hours at 85°C

### Standard Products Table

Rated Voltage (V. DC)	Capacitance ( $\mu$ F)	Case size $\phi$ D × L (mm)	$\tan\delta$ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	ESR (typ.) 20°C, 100Hz (m $\Omega$ )	Z max 20°C, 10kHz (m $\Omega$ )	ESL (typ.) (nH)	Product name
350	3,900	64 × 108	0.20	17.0	24	26	22	VFLR2V392YD108
	4,700	64 × 124	0.20	19.2	20	21	22	VFLR2V472YD124
	5,600	64 × 148	0.20	20.6	17	18	22	VFLR2V562YD148
		77 × 108	0.20	23.5	17	18	24	VFLR2V562YE108
	6,800	64 × 165	0.20	23.3	14	15	22	VFLR2V682YD165
		77 × 124	0.20	26.5	14	15	24	VFLR2V682YE124
	8,200	64 × 188	0.20	25.8	12	12	22	VFLR2V822YD188
		77 × 148	0.20	28.5	12	12	24	VFLR2V822YE148
		90 × 110	0.20	32.6	12	12	24	VFLR2V822YF110
	10,000	77 × 165	0.20	32.1	9	10	24	VFLR2V103YE165
		90 × 126	0.20	35.9	9	10	24	VFLR2V103YF126
	12,000	77 × 188	0.20	35.3	8	8	24	VFLR2V123YE188
		90 × 150	0.20	39.1	8	8	24	VFLR2V123YF150
	15,000	77 × 228	0.20	40.8	6	7	24	VFLR2V153YE228
90 × 167		0.20	43.3	6	7	24	VFLR2V153YF167	
18,000	90 × 190	0.20	47.1	5	6	24	VFLR2V183YF190	
22,000	90 × 230	0.20	51.2	4	5	24	VFLR2V223YF230	
400	3,300	64 × 108	0.20	15.7	29	30	22	VFLR2G332YD108
	3,900	64 × 124	0.20	17.5	24	26	22	VFLR2G392YD124
	4,700	64 × 148	0.20	18.9	20	21	22	VFLR2G472YD148
		77 × 108	0.20	21.5	20	21	24	VFLR2G472YE108
	5,600	64 × 165	0.20	21.2	17	18	22	VFLR2G562YD165
		77 × 124	0.20	24.0	17	18	24	VFLR2G562YE124
	6,800	64 × 188	0.20	23.5	14	15	22	VFLR2G682YD188
		77 × 148	0.20	26.0	14	15	24	VFLR2G682YE148
		90 × 110	0.20	29.7	14	15	24	VFLR2G682YF110
	8,200	77 × 165	0.20	29.1	12	12	24	VFLR2G822YE165
		90 × 126	0.20	32.5	12	12	24	VFLR2G822YF126
	10,000	77 × 188	0.20	32.2	9	10	24	VFLR2G103YE188
		90 × 150	0.20	35.7	9	10	24	VFLR2G103YF150
	12,000	77 × 228	0.20	36.5	8	8	24	VFLR2G123YE228
90 × 167		0.20	38.7	8	8	24	VFLR2G123YF167	
15,000	90 × 190	0.20	43.0	6	7	24	VFLR2G153YF190	
18,000	90 × 230	0.20	46.3	5	6	24	VFLR2G183YF230	

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450	2,700	64 × 108	0.20	14.5	35	37	22	VFLR2W272YD108
	3,300	64 × 124	0.20	16.5	29	30	22	VFLR2W332YD124
	3,900	64 × 148	0.20	17.6	24	26	22	VFLR2W392YD148
		77 × 108	0.20	20.1	24	26	24	VFLR2W392YE108
	4,700	64 × 165	0.20	19.9	20	21	22	VFLR2W472YD165
		77 × 124	0.20	22.6	20	21	24	VFLR2W472YE124
	5,600	64 × 188	0.20	21.9	17	18	22	VFLR2W562YD188
		77 × 148	0.20	24.1	17	18	24	VFLR2W562YE148
		90 × 110	0.20	27.6	17	18	24	VFLR2W562YF110
	6,800	77 × 165	0.20	27.1	14	15	24	VFLR2W682YE165
		90 × 126	0.20	30.3	14	15	24	VFLR2W682YF126
	8,200	77 × 188	0.20	29.9	12	12	24	VFLR2W822YE188
		90 × 150	0.20	33.1	12	12	24	VFLR2W822YF150
	10,000	77 × 228	0.20	34.1	9	10	24	VFLR2W103YE228
90 × 167		0.20	36.2	9	10	24	VFLR2W103YF167	
12,000	90 × 190	0.20	39.4	8	8	24	VFLR2W123YF190	
15,000	90 × 230	0.20	43.3	6	7	24	VFLR2W153YF230	
500	1,800	64 × 108	0.20	11.3	58	61	22	VFLR2H182YD108
	2,200	64 × 124	0.20	12.8	47	50	22	VFLR2H222YD124
	2,700	64 × 148	0.20	13.9	39	41	22	VFLR2H272YD148
		77 × 108	0.20	15.9	39	41	24	VFLR2H272YE108
	3,300	64 × 165	0.20	15.8	32	33	22	VFLR2H332YD165
		77 × 124	0.20	18.0	32	33	24	VFLR2H332YE124
	3,900	64 × 188	0.20	17.3	27	28	22	VFLR2H392YD188
		77 × 148	0.20	19.1	27	28	24	VFLR2H392YE148
		90 × 110	0.20	21.9	27	28	24	VFLR2H392YF110
	4,700	77 × 165	0.20	21.4	22	23	24	VFLR2H472YE165
		90 × 126	0.20	24.0	22	23	24	VFLR2H472YF126
	5,600	77 × 188	0.20	23.5	19	20	24	VFLR2H562YE188
		90 × 150	0.20	26.0	19	20	24	VFLR2H562YF150
	6,800	77 × 228	0.20	26.7	15	16	24	VFLR2H682YE228
90 × 167		0.20	28.4	15	16	24	VFLR2H682YF167	
8,200	90 × 190	0.20	31.0	13	13	24	VFLR2H822YF190	
10,000	90 × 230	0.20	33.6	10	11	24	VFLR2H103YF230	