

LFR Series

Useful of 8,000 hours at 85°C (Warranty of 5,000 hours at 85°C)

Features

- Ripple Current increased by 37% (without wind) or 50% (with 0.5m/s wind) by new heat radiation constructions in case of 90ø
- 500V added in the series.



Product Specifications

Items	Specifications
Temperature range	-40°C ~ +85°C
Capacitance tolerance	±20% (20°C, 120Hz)
Rated voltage	350 ~ 500V.DC
Leakage current	0.01CV (µA) or 5mA, whichever is smaller or less [C = nominal capacitance (µF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table. (20°C, 120Hz)
Permissible ripple current	As specified in the standard products table. (85°C, 120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°C for 5000 hours: Capacitance tolerance: ±15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
Others	JIS C 5101-4.

Ripple current correction coefficient

Temperature (°C)	40	60	85		
Correction coefficient	1.89	1.67	1.00		
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4
Forced wind (m/s)	< 0.5	0.5 ≤			
Correction coefficient	1.0	1.1			

Terminal shapes: M5 for ø64; M6 for ø77, 90.

Terminal permissible currents: 60Arms for M5; 100Arms for M6.

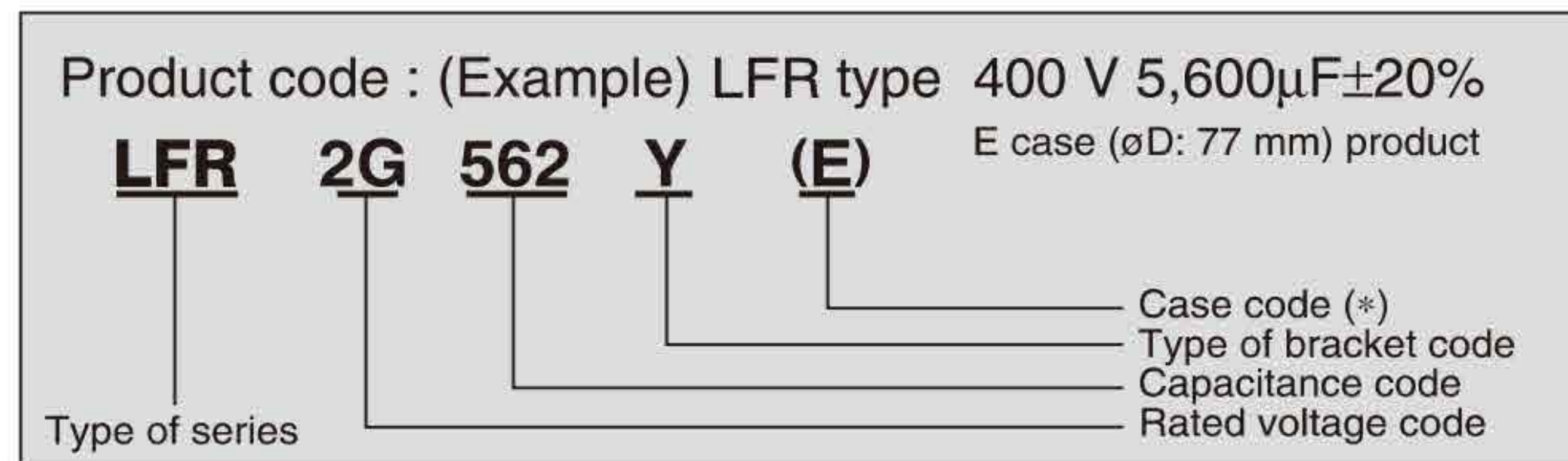
Please use this type of capacitor at a terminal current below the permissible.

Standard value and case size

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	Product name
350V(2V)	3900	64×115	D12T	0.15	14.6	LFR2V392Y
	4700	64×131	D13T	0.15	16.9	LFR2V472Y
	5600	64×155	D16T	0.15	19.8	LFR2V562YD
		77×121	E12T	0.15	21.6	LFR2V562YE
		90×106	F11T	0.15	22.3	LFR2V562YF
	6800	77×137	E13T	0.15	25.0	LFR2V682YE
		90×121	F12T	0.15	26.2	LFR2V682YF
	8200	77×161	E16T	0.15	29.3	LFR2V822YE
		90×137	F13T	0.15	30.1	LFR2V822YF
	10000	90×161	F16T	0.15	35.7	LFR2V103Y
12000	90×161	F16T	0.15	39.1	LFR2V123Y	

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	Product name
400V(2G)	2700	64×100	D10T	0.15	11.5	LFR2G272Y
	3300	64×131	D13T	0.15	14.2	LFR2G332Y
	3900	64×155	D16T	0.15	16.5	LFR2G392Y
	4700	64×155	D16T	0.15	18.1	LFR2G472YD
		77×137	E13T	0.15	20.8	LFR2G472YE
		90×106	F11T	0.15	20.5	LFR2G472YF
	5600	77×137	E13T	0.15	22.7	LFR2G562YE
		90×121	F12T	0.15	23.8	LFR2G562YF
	6800	77×161	E16T	0.15	26.6	LFR2G682YE
		90×137	F13T	0.15	27.4	LFR2G682YF
	8200	90×161	F16T	0.15	32.2	LFR2G822Y
	10000	90×161	F16T	0.15	35.7	LFR2G103Y

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	Product name
450V(2W)	2200	64×100	D10T	0.15	10.4	LFR2W222Y
	2700	64×131	D13T	0.15	12.8	LFR2W272Y
	3300	64×155	D16T	0.15	15.2	LFR2W332Y
	3900	64×155	D16T	0.15	16.5	LFR2W392YD
		77×121	E12T	0.15	18.0	LFR2W392YE
		90×106	F11T	0.15	18.6	LFR2W392YF
	4700	77×137	E13T	0.15	20.8	LFR2W472YE
		90×121	F12T	0.15	21.8	LFR2W472YF
	5600	77×161	E16T	0.15	24.2	LFR2W562YE
		90×137	F13T	0.15	24.9	LFR2W562YF
	6800	90×161	F16T	0.15	29.4	LFR2W682Y
	8200	90×161	F16T	0.15	32.2	LFR2W822Y
	10000	90×178	F18T	0.15	36.9	LFR2W103Y



*() Case code in parentheses : If two types of shape exist for the same rating, enter the first English letter of case code.

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	Product name
500V(2H)	1500	64×115	D12T	0.15	8.6	LFR2H152Y
	1800	64×131	D13T	0.15	10.0	LFR2H182Y
	2200	64×155	D16T	0.15	11.7	LFR2H222Y
	2700	77×121	E12T	0.15	15.0	LFR2H272Y
		77×161	E16T	0.15	18.5	LFR2H332YE
		90×106	F11T	0.15	14.7	LFR2H332YF
	3900	77×161	E16T	0.15	20.2	LFR2H392YE
		90×121	F12T	0.15	19.0	LFR2H392YF
	4700	90×137	F13T	0.15	21.8	LFR2H472Y
	5600	90×161	F16T	0.15	25.3	LFR2H562Y
	6800	90×178	F18T	0.15	29.0	LFR2H682Y