

Lead free

Functional Polymer Capacitors **FPCAP**

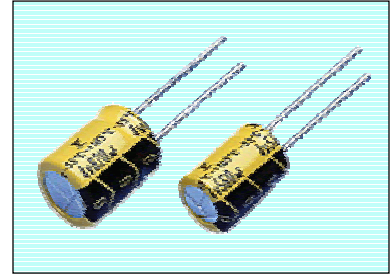
Solid Electrolytic Capacitors with Functional Polymer

RE Series **Low ESR**

◆ Features

By using Functional Polymer cathode, Frequency & Temp. characteristics are greatly improved.

- Low ESR at a high frequency range.
- High ripple current capability.
- Long life and high reliability.(Reliability:0.05%/10000Hrs)



◆ Applications

- Switching Power Supply and DC/DC Converter.
- Buck up Power Supplies of CPU(VRM etc.)
- Miniature high Power Supply.

◆ Specifications

Items	Characteristics	
	Standard type (0L)	Extended capacitance type (SL)
Operating Temp. Range	-55 to +105°C	
Rated Voltage Range	6.3 to 25V-DC	4.0 to 16V-DC
Capacitance Range	10 to 330 μ F	330 to 1200 μ F
Capacitance Tolerance	\pm 20% (M)	
Endurance	Condition	105°C 2,000Hrs at rated voltage
	Capacitance	Within \pm 20% of the value before test
	Leakage Current	Not to exceed the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Reliability	0.05% / 10,000Hrs. Max (60%CL)	
Others	JIS-C-5101-4	

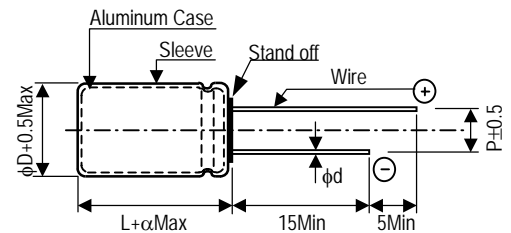
◆ Dimensions

<Standard type : 0L> (ϕ D \times L)

RV(V) SV(V)	4.0	6.3	10	16	20	25
	Cap(μ F)	4.6	7.2	11.5	18.4	23.0
10						6.3 \times 7
15					6.3 \times 7	6.3 \times 10
22				6.3 \times 7	6.3 \times 7	8 \times 11.5
33			6.3 \times 7	6.3 \times 7	6.3 \times 10	10 \times 12.5
47		6.3 \times 7		6.3 \times 10	8 \times 11.5	10 \times 12.5
68			6.3 \times 10	8 \times 11.5	8 \times 11.5	
100			8 \times 11.5	8 \times 11.5	10 \times 12.5	
150		8 \times 11.5		10 \times 12.5		
220		8 \times 11.5	10 \times 12.5			
330		10 \times 12.5				

<Extended capacitance type : SL> (ϕ D \times L)

RV(V) SV(V)	4.0	6.3	10	16	20	25
	Cap(μ F)	4.6	7.2	11.5	18.4	23.0
330				10 \times 12.5		
390		8 \times 11.5				
470			10 \times 12.5			
560	8 \times 11.5					
680		10 \times 12.5				
820	10 \times 12.5	10 \times 12.5				
1000		10 \times 12.5				
1200	10 \times 12.5					



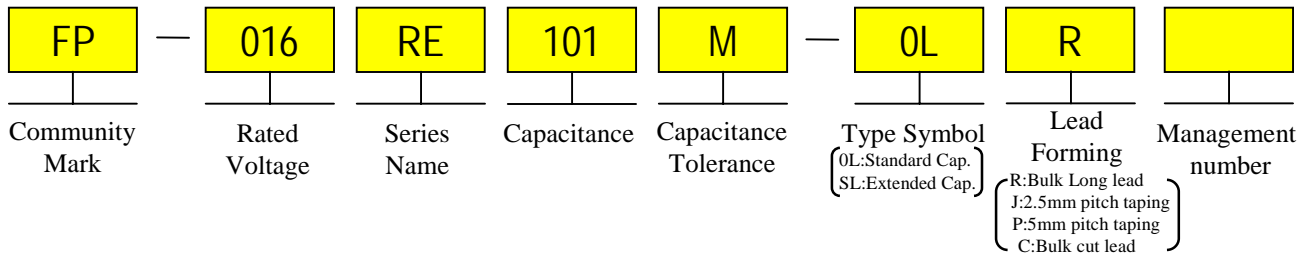
(Unit : mm)

ϕ D \times L	ϕ d	P	α
6.3 \times 7	0.45	2.5	1.0
6.3 \times 10	0.6	2.5	1.0
8 \times 11.5	0.6	3.5	1.5
10 \times 12.5	0.6	5.0	1.5

◆ Part number & Specifications

Rated Voltage (V)	Capacitance (μF)	Part Number	Leakage Current (μA, 2 minutes)	tanδ	ESR (mΩ, at100kHz)	Maxmun permissible Ripple Current (mA, r.m.s.)	Case Size φD×L(mm)
4.0	560	FP-4R0RE561M-SL□□	224.0	0.080	10	5230	8×11.5
	820	FP-4R0RE821M-SL□□	328.0	0.080	8	5500	10×12.5
	1200	FP-4R0RE122M-SL□□	960.0	0.150	10	5500	10×12.5
6.3	47	FP-6R3RE470M-OL□□	14.8	0.070	42	2050	6.3×7
	150	FP-6R3RE151M-OL□□	47.2	0.070	21	3900	8×11.5
	220	FP-6R3RE221M-OL□□	69.3	0.070	21	3900	8×11.5
	330	FP-6R3RE331M-OL□□	103.9	0.070	10	5500	10×12.5
	390	FP-6R3RE391M-SL□□	245.7	0.080	10	5230	8×11.5
	680	FP-6R3RE681M-SL□□	428.4	0.080	10	5500	10×12.5
	820	FP-6R3RE821M-SL□□	516.6	0.120	10	5500	10×12.5
10	1000	FP-6R3RE102M-SL□□	630.0	0.120	10	5500	10×12.5
	33	FP-010RE330M-OL□□	16.5	0.070	49	1900	6.3×7
	68	FP-010RE680M-OL□□	34.0	0.070	35	2650	6.3×10
	100	FP-010RE101M-OL□□	50.0	0.070	21	3900	8×11.5
	220	FP-010RE221M-OL□□	110.0	0.070	10	5500	10×12.5
16	470	FP-010RE471M-SL□□	470.0	0.080	10	5500	10×12.5
	22	FP-016RE220M-OL□□	17.6	0.060	49	1900	6.3×7
	33	FP-016RE330M-OL□□	26.4	0.060	49	1900	6.3×7
	47	FP-016RE470M-OL□□	37.6	0.060	42	2400	6.3×10
	68	FP-016RE680M-OL□□	54.4	0.060	25	3600	8×11.5
	100	FP-016RE101M-OL□□	80.0	0.060	21	3900	8×11.5
	150	FP-016RE151M-OL□□	120.0	0.060	10	5500	10×12.5
20	330	FP-016RE331M-SL□□	792.0	0.080	10	5500	10×12.5
	15	FP-020RE150M-OL□□	15.0	0.060	63	1700	6.3×7
	22	FP-020RE220M-OL□□	22.0	0.060	49	1900	6.3×7
	33	FP-020RE330M-OL□□	33.0	0.060	49	2200	6.3×10
	47	FP-020RE470M-OL□□	47.0	0.060	28	3400	8×11.5
	68	FP-020RE680M-OL□□	68.0	0.060	25	3600	8×11.5
25	100	FP-020RE101M-OL□□	100.0	0.060	15	4500	10×12.5
	10	FP-025RE100M-OL□□	12.5	0.060	63	1700	6.3×7
	15	FP-025RE150M-OL□□	18.7	0.060	49	2200	6.3×10
	22	FP-025RE220M-OL□□	27.5	0.060	28	3400	8×11.5
	33	FP-025RE330M-OL□□	41.2	0.060	20	3800	10×12.5
25	47	FP-025RE470M-OL□□	58.7	0.060	20	3800	10×12.5

◆ Part Number (EX) 16V100μF



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* Design and Specifications are subject to change without notice.

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