

Functional Polymer Capacitors

Solid Electrolytic Capacitors with Functional Polymer

FPCAP

RE Series L1, V1 Type

Low ESR

Low Profile

Lead Free

Features

The Anode is Aluminum foil and the Cathode is a Functional Polymer formed.

- Low ESR at a high frequency range.
- High reliability and high heat range.
- Long life and high reliability.(Reliability:0.1%/1,000Hrs)

Applications

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

Environmental correspondence

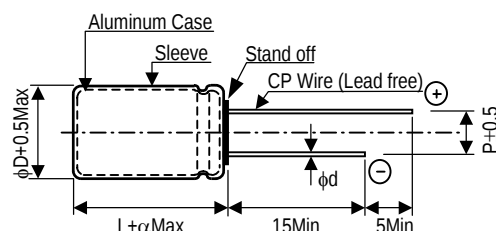
- Any environmental hazardous substances are not used.
- The lead free of terminal plating (Sn 100%)

Specifications

Items		Characteristics	
		Standard type (L1)	Extended capacitance type (V1)
Operating Temp. Range		-55 to +105°C	
Rated Voltage Range		6.3 to 25 V·DC	4.0 to 16 V·DC
Capacitance Range		22 to 330 μ F	330 to 820 μ F
Capacitance Tolerance		$\pm 20\%$ (M)	
Endurance	Condition	105°C 2,000Hrs at rated voltage	
	Capacitance	Within $\pm 20\%$ of the initial value before test	
	Leakage Current	Not to exceed the initial specified value	
	Dissipation Factor	Not to exceed 150% of the initial specified value	
Reliability		0.1% / 1,000Hrs. Max (60%CL)	
Others		JIS-C-5101-4	

Dimensions <Standard type : L1> (ϕ D×L)

R.V.(V) Cap(μ F)	4.0	6.3	10	16	20	25
	4.6	7.2	11.5	18.4	23.0	28.7
22						8×10.5
33						10×10.5
47					8×10.5	10×10.5
68				8×10.5	8×10.5	
100			8×10.5	8×10.5	10×10.5	
150		8×10.5		10×10.5		
220		8×10.5	10×10.5			
330		10×10.5				



<Extended capacitance type : V1> (ϕ D×L)

R.V.(V) Cap(μ F)	4.0	6.3	10	16	20	25
	4.6	7.2	11.5	18.4	23.0	28.7
330				10×10.5		
390		8×10.5				
470			10×10.5			
560	8×10.5					
680		10×10.5				
820	10×10.5					

(Unit : mm)

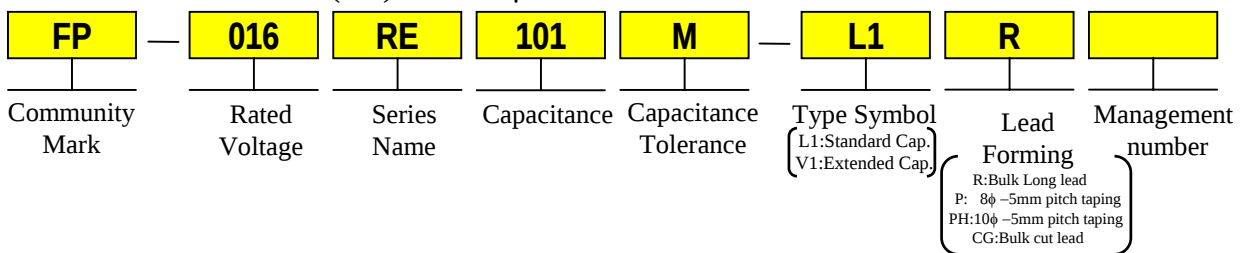
ϕ D×L	ϕ d	P
8×10.5	0.6	3.5
10×10.5	0.6	5.0

Functional Polymer Capacitors (FPCAP)

●Part number & Specifications

Rated Voltage (V)	Capacitance (μF)	Part Number	Leakage Current (μA)	tanδ	ESR (mΩ, 100kHz)	Maximum permissible Ripple Current (mA, r.m.s.)	Case Size φD×L(mm)
4.0	560	FP-4R0RE561M-V1□□	224.0	0.080	14	4080	8×10.5
	820	FP-4R0RE821M-V1□□	328.0	0.080	12	5040	10×10.5
6.3	150	FP-6R3RE151M-L1□□	18.90	0.070	30	2780	8×10.5
	220	FP-6R3RE221M-L1□□	27.72	0.070	30	3000	8×10.5
	330	FP-6R3RE331M-L1□□	41.58	0.070	25	3500	10×10.5
	390	FP-6R3RE391M-V1□□	245.7	0.080	16	3810	8×10.5
	680	FP-6R3RE681M-V1□□	428.4	0.080	13	4840	10×10.5
10	100	FP-010RE101M-L1□□	20.00	0.070	30	2670	8×10.5
	220	FP-010RE221M-L1□□	44.00	0.070	27	3370	10×10.5
	470	FP-010RE471M-V1□□	470.0	0.080	15	4510	10×10.5
16	68	FP-016RE680M-L1□□	21.76	0.060	36	2700	8×10.5
	100	FP-016RE101M-L1□□	32.00	0.060	30	2740	8×10.5
	150	FP-016RE151M-L1□□	48.00	0.060	28	3260	10×10.5
	330	FP-016RE331M-V1□□	792.0	0.080	17	4580	10×10.5
20	47	FP-020RE470M-L1□□	18.80	0.060	40	2450	8×10.5
	68	FP-020RE680M-L1□□	27.20	0.060	36	2600	8×10.5
	100	FP-020RE101M-L1□□	40.00	0.060	30	3210	10×10.5
25	22	FP-025RE220M-L1□□	11.00	0.060	40	2330	8×10.5
	33	FP-025RE330M-L1□□	16.50	0.060	35	2900	10×10.5
	47	FP-025RE470M-L1□□	23.50	0.060	35	2980	10×10.5

●Part Number (EX) 16V100μF



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