

Lead free

Functional Polymer Capacitors **FPCAP**

Solid Electrolytic Capacitors with Functional Polymer

SE Series *Vertical Chip*

◆ 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:0.1%/1000Hrs)

◆ Applications

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

◆ Specifications

Item	Characteristic	
Operating temp. range	-55 to +105°C	
Rated voltage range	2.5 to 25V·DC	
Capacitance range	15 to 1500 μ F	
Capacitance tolerance	\pm 20%	
Endurance test	Test condition	105°C, rated voltage 2000Hr
	Capacitance tolerance	Within \pm 20% of initial value before test
	Leakage current	Not to exceed the initial specified value
	ESR	Not to exceed 150% of initial specified value
	tan δ	Not to exceed 150% of initial specified value
Other	JIS-C-5101-18	

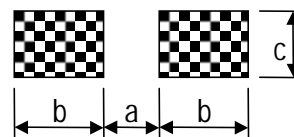
◆ Size list

(ϕ D \times L mm)

Cap(μ F)	R.V.(V) S.V.(V)							
	2.5	4.0	6.3	10	16	20	25	
15								6.3 \times 5.7
22								
27								6.3 \times 5.7
33								
39						6.3 \times 5.7		8 \times 6.7
47					6.3 \times 5.7			8 \times 6.7
56					6.3 \times 5.7			10 \times 7.7
68								10 \times 7.7
82			6.3 \times 5.7			8 \times 6.7		10 \times 7.7
100		6.3 \times 5.7				10 \times 7.7		8 \times 11.7
120				8 \times 6.7				
150			8 \times 6.7			10 \times 7.7		8 \times 11.7
180			8 \times 6.7			8 \times 11.7		
220		8 \times 6.7				8 \times 11.7		10 \times 12.4
270				10 \times 7.7				
330		8 \times 6.7	10 \times 7.7	8 \times 11.7	10 \times 12.4			
390								
470		10 \times 7.7	8 \times 11.7					
560		8 \times 11.7	8 \times 11.7	10 \times 12.4				
680	8 \times 11.7		10 \times 12.4					
820			10 \times 12.4					
1000			10 \times 12.4					
1200		10 \times 12.4						
1500	10 \times 12.4							



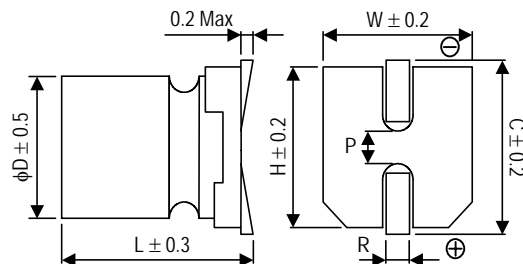
◆ Recommended land pattern



(Unit:mm)

ϕ D \times L	a	b	c
6.3 \times 5.7	2.1	3.5	1.6
8 \times 6.7	2.8	4.2	1.9
10 \times 7.7	4.3	4.4	1.9
8 \times 11.7	2.8	4.2	1.9
10 \times 12.4	4.3	4.4	1.9

◆ Dimensions



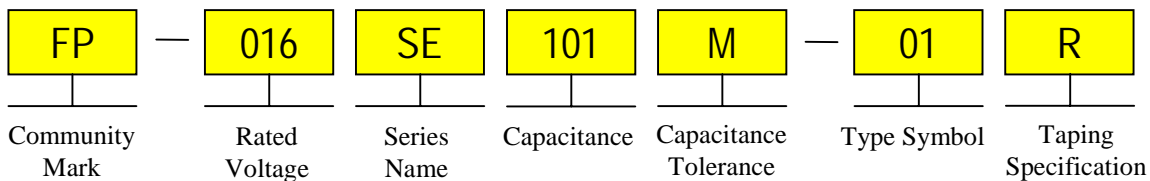
(Unit:mm)

ϕ D \times L	W	H	C	R	P
6.3 \times 5.7	6.5	6.5	7.2	0.5 to 0.8	2.1
8 \times 6.7	8.3	8.3	9.0	0.8 to 1.1	3.2
10 \times 7.7	10.3	10.3	11.0	0.8 to 1.1	4.6
8 \times 11.7	8.3	8.3	9.0	0.8 to 1.1	3.2
10 \times 12.4	10.3	10.3	11.0	0.8 to 1.1	4.6

◆ Part number & Specifications

Rated Voltage (V)	Capacitance (μF, 120Hz)	Partnumber	L.C. (μA,2min)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Maximum permissible Ripple current (mA, r.m.s.)	case size φD×L(mm)
2.5	680	FP-2R5SE681M-01R	425	0.12	13	4500	8×11.7
	1500	FP-2R5SE152M-01R	938	0.12	10	5500	10×12.4
4.0	100	FP-4R0SE101M-01R	80	0.12	35	2200	6.3×5.7
	220	FP-4R0SE221M-01R	176	0.12	30	2700	8×6.7
	330	FP-4R0SE331M-01R	264	0.12	30	2700	8×6.7
	470	FP-4R0SE471M-01R	376	0.12	22	3800	10×7.7
	560	FP-4R0SE561M-01R	448	0.12	13	4500	8×11.7
	1200	FP-4R0SE122M-01R	960	0.12	12	5500	10×12.4
6.3	82	FP-6R3SE820M-01R	103	0.12	35	2200	6.3×5.7
	150	FP-6R3SE151M-01R	189	0.12	30	2600	8×6.7
	180	FP-6R3SE181M-01R	227	0.12	30	2600	8×6.7
	330	FP-6R3SE331M-01R	416	0.12	22	3600	10×7.7
	470	FP-6R3SE471M-01R	592	0.15	15	4300	8×11.7
	560	FP-6R3SE561M-01R	706	0.15	14	4400	8×11.7
	680	FP-6R3SE681M-01R	643	0.15	13	5200	10×12.4
	820	FP-6R3SE821M-01R	775	0.15	12	5500	10×12.4
10	1000	FP-6R3SE102M-01R	945	0.15	12	5500	10×12.4
	47	FP-010SE470M-01R	94	0.12	40	2100	6.3×5.7
	56	FP-010SE560M-01R	112	0.12	40	2100	6.3×5.7
	120	FP-010SE121M-01R	240	0.12	30	2600	8×6.7
	270	FP-010SE271M-01R	540	0.12	25	3500	10×7.7
	330	FP-010SE331M-01R	660	0.15	17	4000	8×11.7
16	560	FP-010SE561M-01R	840	0.15	13	5300	10×12.4
	39	FP-016SE390M-01R	125	0.10	45	2000	6.3×5.7
	56	FP-016SE560M-01R	179	0.10	40	2300	8×6.7
	82	FP-016SE820M-01R	262	0.10	40	2300	8×6.7
	100	FP-016SE101M-01R	320	0.10	30	3200	10×7.7
	150	FP-016SE151M-01R	480	0.10	30	3200	10×7.7
	180	FP-016SE181M-01R	576	0.12	20	3700	8×11.7
	220	FP-016SE221M-01R	704	0.12	20	3700	8×11.7
20	330	FP-016SE331M-01R	792	0.12	16	4800	10×12.4
	27	FP-020SE270M-01R	108	0.10	55	1700	6.3×5.7
	47	FP-020SE470M-01R	188	0.10	45	2000	8×6.7
	68	FP-020SE680M-01R	272	0.10	40	2500	10×7.7
	150	FP-020SE151M-01R	600	0.12	20	3800	8×11.7
25	220	FP-020SE221M-01R	880	0.12	18	4400	10×12.4
	15	FP-025SE150M-01R	188	0.10	65	1600	6.3×5.7
	33	FP-025SE330M-01R	413	0.10	55	1900	8×6.7
	39	FP-025SE390M-01R	488	0.10	50	2000	8×6.7
	56	FP-025SE560M-01R	490	0.10	45	2200	10×7.7
	82	FP-025SE820M-01R	718	0.10	40	2300	10×7.7
	100	FP-025SE101M-01R	750	0.12	30	2900	8×11.7
	150	FP-025SE151M-01R	938	0.12	25	3800	10×12.4

◆ Part Number (EX) 16V 100μF



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