

Functional Polymer Capacitors

Solid Electrolytic Capacitors with Functional Polymer

FPCAP

RE Series *0U, SU Type*

Ultra Low ESR

Lead Free

● 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.

● Environmental correspondence

Any environmental hazardous substances are not used.

- The lead free of terminal plating (Sn 100%)

● Specifications

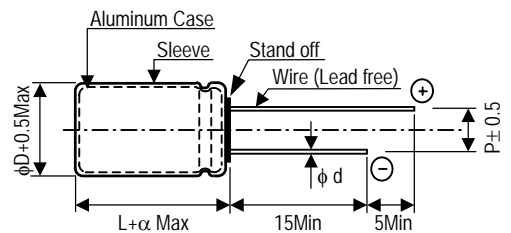
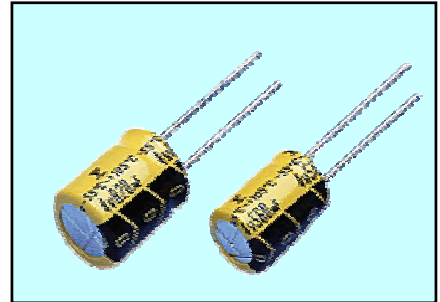
Items	Characteristics	
	Standard type (0U)	Extended capacitance type (SU)
Operating Temp. Range	- 55 to + 105°C	
Rated Voltage Range	6.3 to 16 V-DC	2.5 to 16 V-DC
Capacitance Range	68 to 330 μF	330 to 1500 μF
Capacitance Tolerance	± 20% (M)	
Endurance	Condition	105°C 2,000Hrs at rated voltage
	Capacitance	Within ± 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	0.1% / 1,000Hrs. Max (60%CL)	
Others	JIS-C-5101-4	

● Dimensions <Standard type : 0U> (φ D×L)

Cap(μF)	R.V.(V)	2.5	4.0	6.3	10	16
	S.V.(V)	2.8	4.6	7.2	11.5	18.4
68					8×11.5	8×11.5
100					8×11.5	8×11.5
150				8×11.5	10×12.5	
220				8×11.5	10×12.5	
330				10×12.5		

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

Cap(μF)	R.V.(V)	2.5	4.0	6.3	10	16
	S.V.(V)	2.8	4.6	7.2	11.5	18.4
330						10×12.5
390				8×11.5		
470					10×12.5	
560			8×11.5			
680	8×11.5			10×12.5		
820	8×11.5	10×12.5		10×12.5		
1000				10×12.5		
1200		10×12.5				
1500	10×12.5					



(Unit : mm)

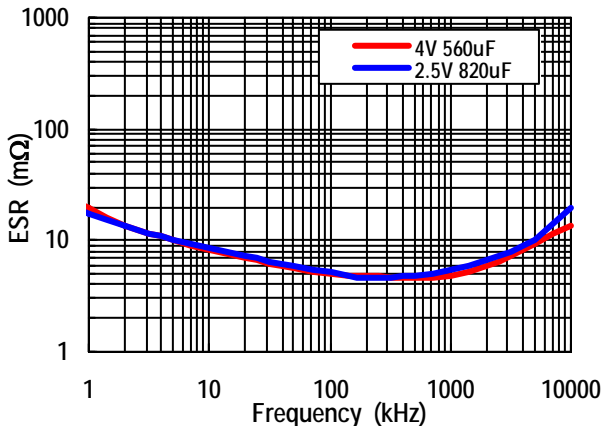
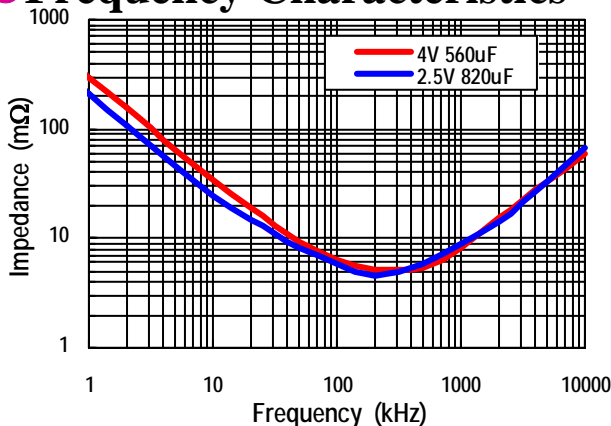
φ D×L	φ d	P	α
8×11.5	0.6	3.5	1.5
10×12.5	0.6	5.0	1.5

Functional Polymer Capacitors (FPCAP)

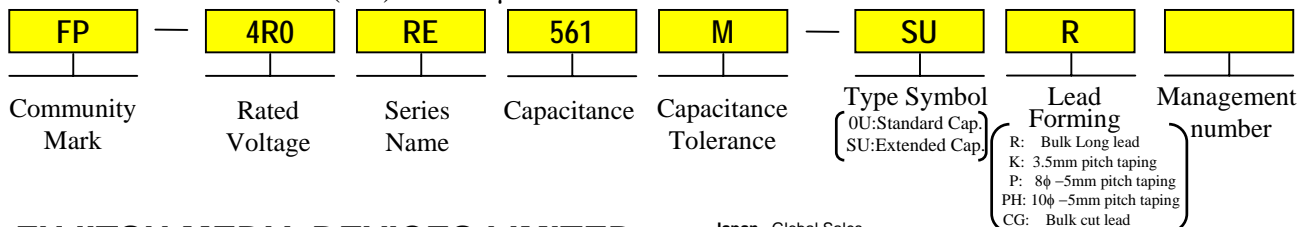
● Part number & Specifications

Rated Voltage (V)	Capacitance (μF, at120Hz)	Part Number	Leakage Current (μA, 2 minutes)	tanδ	ESR (mΩ, at100kHz)	Maxmun permissible Ripple Current (mA, r.m.s.)	Case Size φ D×L(mm)
2.5	680	FP-2R5RE681M-SU□□	425.0	0.080	7	5600	8×11.5
	820	FP-2R5RE821M-SU□□	512.5	0.080	7	5600	8×11.5
	1500	FP-2R5RE152M-SU□□	937.5	0.080	7	6100	10×12.5
4.0	560	FP-4R0RE561M-SU□□	224.0	0.080	7	5600	8×11.5
	820	FP-4R0RE821M-SU□□	328.0	0.080	7	6100	10×12.5
	1200	FP-4R0RE122M-SU□□	960.0	0.150	7	6100	10×12.5
6.3	150	FP-6R3RE151M-0U□□	47.2	0.070	7	5600	8×11.5
	220	FP-6R3RE221M-0U□□	69.3	0.070	7	5600	8×11.5
	330	FP-6R3RE331M-0U□□	103.9	0.070	7	6100	10×12.5
	390	FP-6R3RE391M-SU□□	245.7	0.080	7	5600	8×11.5
	680	FP-6R3RE681M-SU□□	428.4	0.080	7	6100	10×12.5
	820	FP-6R3RE821M-SU□□	516.6	0.120	7	6100	10×12.5
	1000	FP-6R3RE102M-SU□□	630.0	0.120	7	6100	10×12.5
10.0	100	FP-010RE101M-0U□□	50.0	0.070	7	5600	8×11.5
	220	FP-010RE221M-0U□□	110.0	0.070	7	6100	10×12.5
	470	FP-010RE471M-SU□□	470.0	0.080	7	6100	10×12.5
16.0	68	FP-016RE680M-0U□□	54.4	0.060	7	5600	8×11.5
	100	FP-016RE101M-0U□□	80.0	0.060	7	5600	8×11.5
	150	FP-016RE151M-0U□□	120.0	0.060	7	6100	10×12.5
	330	FP-016RE331M-SU□□	792.0	0.080	7	6100	10×12.5

● Frequency Characteristics



● Part Number (EX) 4V560μF



FUJITSU MEDIA DEVICES LIMITED

<http://jp.fujitsu.com/fmd/en/>

Japan Global Sales
Shin-Yokohama Square Bldg., 14F Shin-Yokohama 2-3-12, Kohoku-ku, Yokohama, Kanagawa 222-0033, Japan
Tel: +81-45-471-0061 Fax: +81-45-471-0076

North and South America FUJITSU MEDIA DEVICES OF AMERICA, INC. Tel: +1-408-746-7500 Fax: +1-408-746-7555 http://www.fmda.fujitsu.com/	Europe FUJITSU MICROELECTRONICS EUROPE GmbH Tel: +49-6103-690-0 Fax: +49-6103-690-122 http://www.fme.fujitsu.com/	Asia Pacific FUJITSU MEDIA DEVICES HONG KONG LTD. Tel: +852-2866-8509 Fax: +852-2866-8287 (Taiwan Representative office) Tel: +886-2-2311-2255 Fax: +886-2-2371-8347 FUJITSU MEDIA DEVICES TRADING (SHANGHAI) LTD. Tel: +86-21-6323-4560 Fax: +86-21-6323-4510
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