

NEW

Functional Polymer Capacitors **FPCAP**

Solid Electrolytic Capacitors with Functional Polymer

RE Series *ESR 5mΩ & Lead Free*

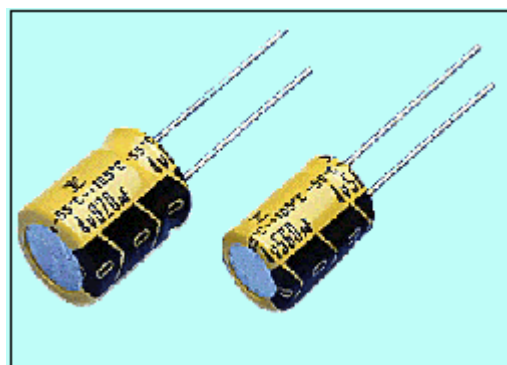
◆ Features

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: 0.05%/10000Hrs)

◆ Applications

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



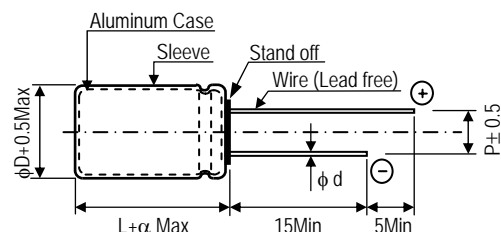
◆ Specifications

| Items | Characteristics | |
|-----------------------|--------------------------------|---|
| Operating Temp. Range | - 55 to + 105°C | |
| Rated Voltage Range | 2.5 to 6.3V-DC | |
| Capacitance Range | 390 to 1500μF | |
| 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 |
| | tanδ | Not to exceed 150% of the value specified |
| Reliability | 0.05% / 10,000Hrs. Max (60%CL) | |
| Others | JIS-C-5101-4 | |

◆ Dimensions

(φ D×L)

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



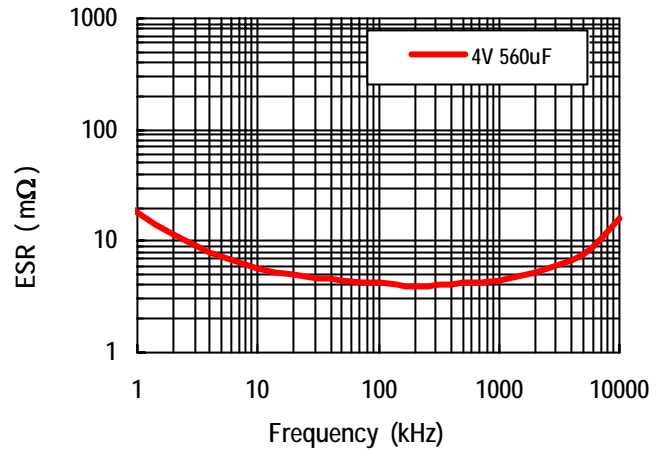
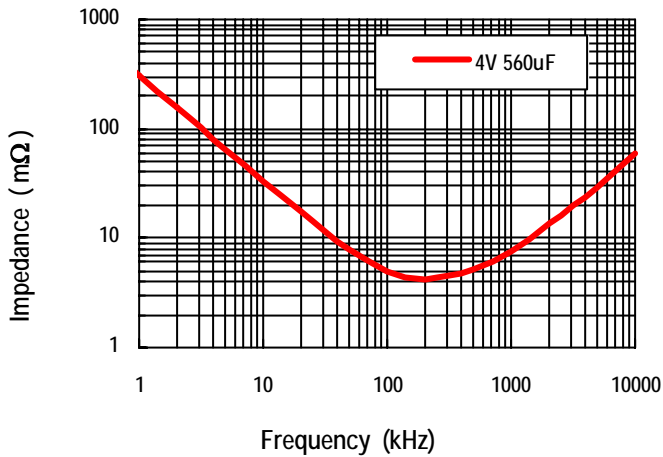
(Unit : mm)

| 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 |

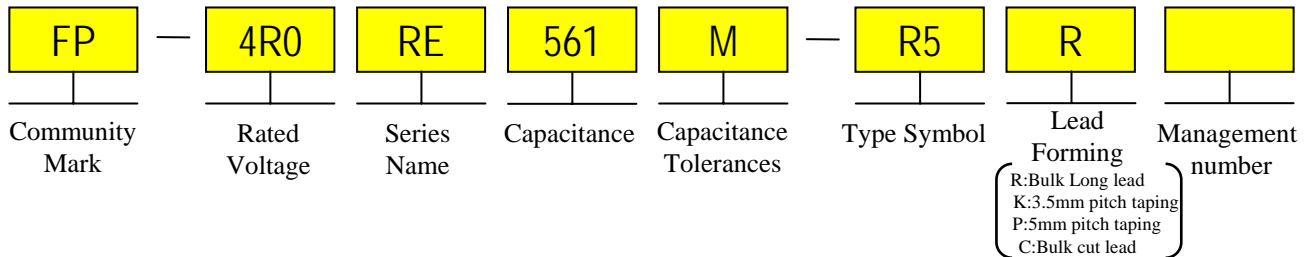
◆ Part number & Specifications

| Rated Voltage (V) | Capacitance (μF , at120Hz) | Part Number | Leakage Current (μA , 2 minutes) | $\tan\delta$ | ESR ($\text{m}\Omega$, at100kHz) | Maxmun permissible Ripple Current (mA, r.m.s.) | Case Size $\phi\text{D}\times\text{L}$ (mm) |
|-------------------|--|-------------------|--|--------------|------------------------------------|--|---|
| 2.5 | 680 | FP-2R5RE681M-R5□□ | 425.0 | 0.15 | 5 | 6630 | 8×11.5 |
| | 820 | FP-2R5RE821M-R5□□ | 512.5 | 0.150 | 5 | 6630 | 8×11.5 |
| | 1500 | FP-2R5RE152M-R5□□ | 937.5 | 0.150 | 5 | 7220 | 10×12.5 |
| 4.0 | 560 | FP-4R0RE561M-R5□□ | 560.0 | 0.150 | 5 | 6630 | 8×11.5 |
| | 820 | FP-4R0RE821M-R5□□ | 820.0 | 0.150 | 5 | 7220 | 10×12.5 |
| | 1200 | FP-4R0RE122M-R5□□ | 1200.0 | 0.150 | 5 | 7220 | 10×12.5 |
| 6.3 | 390 | FP-6R3RE391M-R5□□ | 614.3 | 0.150 | 5 | 6630 | 8×11.5 |
| | 680 | FP-6R3RE681M-R5□□ | 1071.0 | 0.150 | 5 | 7220 | 10×12.5 |
| | 820 | FP-6R3RE821M-R5□□ | 1291.5 | 0.150 | 5 | 7220 | 10×12.5 |

◆ Frequency Characteristics



◆ Part Number (EX) 4V560 μF



FUJITSU MEDIA DEVICES LIMITED

● Sales Offices

• North and South America
FUJITSU MEDIA DEVICES OF AMERICA INC,
 1731 Technology Drive, Suite 800, San Jose, CA 95110 USA
 Tel. +1-408-437-8900 Fax. +1-408-437-0700

• Europe
FUJITSU MIKROELEKTRONIK EUROPE GmbH
 Am Siebenstein 6-10, D-63303 Dreieich-Buchsschlag, Germany
 Tel. +49-61-03-690-0 Fax. +49-61-03-690-122

• Asia Pacific
FUJITSU MEDIA DEVICES HONG KONG LIMITED
 Room. 1101 Ocean Centre, 5 Canton Road, Tsimshatsui Kowloon, Hong Kong
 Tel. +852-2866-8509 Fax. +852-2866-8287

FUJITSU MEDIA DEVICES TRADING (Shanghai) LIMITED
 Room. 3104, Bund Center 222 Yan An Road East, Shanghai 200002, China
 Tel. +86-21-6323-4560 Fax. +86-21-6323-4510

* Design and Specifications are subject to change without notice.
 For more information. Please contact our sales office or distributor near to your company.