

SOLID TANTALUM ELECTROLYTIC CAPACITORS

F72 Low Profile
Conformal coated Chip

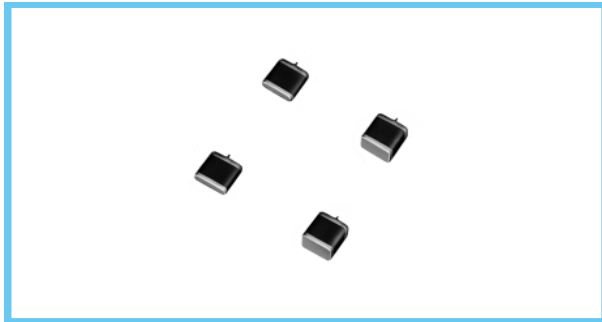
F75 Maximum CV
Conformal coated Chip

FRAMELESS™

Upgrade



● Compliant to the RoHS directive (2002/95/EC).

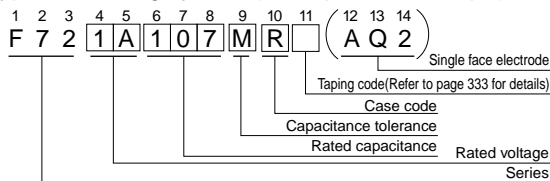


■ Applications

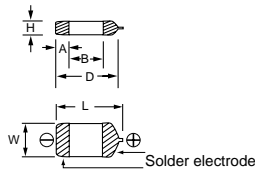
- Wireless modem
- Tablet PC
- e-book
- SSD
- Smart meter

F72

■ Type numbering system (Example : 10V 100μF)



■ Drawing



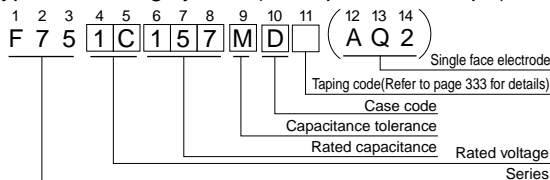
■ Dimensions

| Case code | L | W | H | A | B | (D) |
|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| R | 7.2 ± 0.3 | 6.0 ± 0.3 | 1.2 ± 0.3 | 1.3 ± 0.4 | 3.8 ± 0.6 | (6.2) |
| M | 7.2 ± 0.3 | 6.0 ± 0.3 | 2.0MAX. | 1.3 ± 0.4 | 3.8 ± 0.6 | (6.2) |

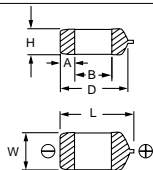
D dimension only for reference

F75

■ Type numbering system (Example : 16V 150μF)



■ Drawing



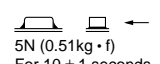
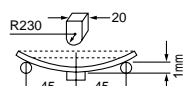
■ Standard Ratings

F72

| Cap.(μF) | Code | V | | | |
|----------|------|----|-----|-----|----|
| | | 4 | 6.3 | 10 | 16 |
| 33 | 336 | 0G | 0J | 1A | 1C |
| 47 | 476 | | | R | R |
| 68 | 686 | | R | R | R |
| 100 | 107 | R | R | R | |
| 150 | 157 | R | R | R | |
| 220 | 227 | R | R | R | |
| 330 | 337 | R | R | (R) | |
| 470 | 477 | | | M | |
| 680 | 687 | | | M | |
| 1000 | 108 | | M | M | |
| 1500 | 158 | | M | | |

() The series in parentheses are being developed. Please contact to your local Nichicon sales office when these series are being designed in your application.

■ Specifications

| Item | Performance Characteristics |
|-----------------------------------|--|
| Category | -55 to +125°C (Rated temperature : +85°C) |
| Temperature Range | |
| Capacitance Tolerance | ±20%, ±10% (at 120Hz) |
| Dissipation Factor (120Hz) | Refer to next page |
| ESR (100kHz) | Refer to next page |
| Leakage Current | <ul style="list-style-type: none"> ● After 1 minute's application of rated voltage, leakage current at 20°C is not more than 0.01CV or 0.5μA, whichever is greater. ● After 1 minute's application of rated voltage, leakage current at 85°C is not more than 0.1CV or 5μA, whichever is greater. ● After 1 minute's application of derated voltage, leakage current at 125°C is not more than 0.125CV or 6.3μA, whichever is greater. |
| Capacitance Change by Temperature | +15% Max. (at +125°C) +10% Max. (at +85°C) -10% Max. (at -55°C) |
| Damp Heat (Steady State) | At 40°C, 90 to 95% R.H., For 500 hours (No voltage applied) Capacitance Change Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less |
| Temperature Cycles | At -55°C / +125°C, 30 minutes each, For 5 cycles, Capacitance Change Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less |
| Resistance to Soldering Heat | 10 seconds reflow at 260°C, 10 seconds immersion at 260°C Capacitance Change Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less |
| Surge* | After application of surge in series with a 33Ω resistor at the rate of 30 seconds ON, 30 seconds OFF, for 1000 successive test cycles at 85°C, capacitors shall meet the characteristic requirements table below. Capacitance Change Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less |
| Endurance* | After 2000 hours' application of rated voltage at 85°C, capacitors shall meet the characteristic requirements table below. Capacitance Change Refer to * 1 Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less |
| Shear Test | After applying the pressure load of 5N for 10±1 seconds horizontally to the center of capacitor side body which has no electrode and has been soldered beforehand on a substrate, there shall be found neither exfoliation nor its sign at the terminal electrode.  |
| Terminal Strength | Keeping a capacitor surface-mounted on a substrate upside down and supporting the substrate at both of the opposite bottom points 45mm apart from the center of capacitor, the pressure strength is applied with a specified jig at the center of substrate so that the substrate may bend by 1mm as illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals.  |

* As for the surge voltage, refer to page 332 for details.

■ Dimensions

| Case code | L | W | H | A | B | (D) |
|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| U | 7.1 ± 0.3 | 3.2 ± 0.3 | 2.0MAX. | 1.3 ± 0.3 | 3.6 ± 0.6 | (6.0) |
| C | 7.1 ± 0.3 | 3.2 ± 0.3 | 2.5 ± 0.3 | 1.3 ± 0.3 | 3.6 ± 0.6 | (6.0) |
| D | 7.3 ± 0.3 | 4.3 ± 0.3 | 2.8 ± 0.3 | 1.3 ± 0.4 | 3.9 ± 0.6 | (6.4) |
| R | 7.2 ± 0.3 | 6.0 ± 0.3 | 3.5 ± 0.3 | 1.3 ± 0.4 | 3.8 ± 0.6 | (6.2) |

D dimension only for reference

F75

| Cap.(μF) | Code | V | | | |
|----------|------|-------|-------------|-------|----|
| | | 4 | 6.3 | 10 | 16 |
| 68 | 686 | | | | C |
| 100 | 107 | | | | C |
| 150 | 157 | | | | D |
| 220 | 227 | | | | R |
| 330 | 337 | C | C · D | D | |
| 470 | 477 | C · D | U · D | U · R | |
| 680 | 687 | D | (U) · D · R | | |
| 1000 | 108 | D · R | (U) · R | | |
| 1500 | 158 | R | | | |
| 2200 | 228 | R | | | |

F72

Standard Ratings

| Rated Volt | Rated Capacitance (μF) | Case code | Part Number | Leakage Current (μA) | Dissipation Factor (%@120Hz) | ESR (Ω@100kHz) | *1 ΔC/C (%) |
|------------|------------------------|-----------|-------------|----------------------|------------------------------|----------------|-------------|
| 4V | 100 | R | F720G107MRC | 4.0 | 8 | 0.70 | * |
| | 150 | R | F720G157MRC | 6.0 | 10 | 0.70 | * |
| | 220 | R | F720G227MRC | 8.8 | 12 | 0.70 | * |
| | 330 | R | F720G337MRC | 13.2 | 12 | 0.70 | * |
| 6.3V | 68 | R | F720J686MRC | 4.3 | 6 | 0.75 | * |
| | 100 | R | F720J107MRC | 6.3 | 8 | 0.70 | * |
| | 150 | R | F720J157MRC | 9.5 | 10 | 0.70 | * |
| | 220 | R | F720J227MRC | 13.9 | 12 | 0.70 | * |
| | 330 | R | F720J337MRC | 20.8 | 12 | 0.70 | * |
| | 1000 | M | F720J108MMC | 63.0 | 30 | 0.14 | ±15 |
| | 1500 | M | F720J158MMC | 95.0 | 45 | 0.14 | ±20 |
| 10V | 47 | R | F721A476MRC | 4.7 | 6 | 0.80 | * |
| | 68 | R | F721A686MRC | 6.8 | 6 | 0.75 | * |
| | 100 | R | F721A107MRC | 10.0 | 8 | 0.70 | * |
| | 150 | R | F721A157MRC | 15.0 | 10 | 0.70 | * |
| | 220 | R | F721A227MRC | 22.0 | 12 | 0.70 | * |
| | 470 | M | F721A477MMC | 47.0 | 30 | 0.14 | ±15 |
| | 680 | M | F721A687MMC | 68.0 | 35 | 0.14 | ±20 |
| | 1000 | M | F721A108MMC | 200 | 45 | 0.14 | ±20 |
| 16V | 33 | R | F721C336MRC | 5.3 | 6 | 0.90 | * |
| | 47 | R | F721C476MRC | 7.5 | 6 | 0.80 | * |
| | 68 | R | F721C686MRC | 10.9 | 6 | 0.75 | * |

*1 : ΔC/C Marked "**"

| | F72 ALL Case (%) |
|---------------------------|------------------|
| Damp Heat | ±10 |
| Temperature cycles | ±5 |
| Resistance soldering heat | ±5 |
| Surge | ±5 |
| Endurance | ±10 |

F75

Standard Ratings

| Rated Volt | Rated Capacitance (μF) | Case code | Part Number | Leakage Current (μA) | Dissipation Factor (%@120Hz) | ESR (Ω@100kHz) | *1 ΔC/C (%) |
|------------|------------------------|-----------|-------------|----------------------|------------------------------|----------------|-------------|
| 4V | 330 | C | F750G337MCC | 13.2 | 10 | 0.15 | * |
| | 470 | C | F750G477MCC | 18.8 | 14 | 0.12 | * |
| | 470 | D | F750G477MDC | 18.8 | 14 | 0.12 | * |
| | 680 | D | F750G687MDC | 27.2 | 18 | 0.12 | * |
| | 1000 | D | F750G108MDC | 40.0 | 24 | 0.12 | * |
| | 1000 | R | F750G108MRC | 40.0 | 24 | 0.12 | * |
| | 1500 | R | F750G158MRC | 60.0 | 30 | 0.12 | * |
| | 2200 | R | F750G228MRC | 88.0 | 45 | 0.07 | * |
| | 6.3V | 220 | C | F750J227MCC | 13.9 | 10 | 0.20 |
| 330 | | C | F750J337MCC | 20.8 | 10 | 0.15 | * |
| 330 | | D | F750J337MDC | 20.8 | 10 | 0.15 | * |
| 470 | | U | F750J477MUC | 29.6 | 15 | 0.10 | * |
| 470 | | D | F750J477MDC | 29.6 | 14 | 0.12 | * |
| 680 | | D | F750J687MDC | 42.8 | 18 | 0.12 | * |
| 680 | | R | F750J687MRC | 42.8 | 18 | 0.12 | * |
| 1000 | | R | F750J108MRC | 63.0 | 24 | 0.12 | * |
| 10V | | 150 | C | F751A157MCC | 15.0 | 10 | 0.22 |
| | 220 | C | F751A227MCC | 22.0 | 10 | 0.20 | * |
| | 220 | D | F751A227MDC | 22.0 | 10 | 0.20 | * |
| | 330 | D | F751A337MDC | 33.0 | 10 | 0.15 | * |
| | 470 | U | F751A477MUC | 94.0 | 30 | 0.15 | ±20 |
| | 470 | R | F751A477MRC | 47.0 | 14 | 0.12 | * |
| 16V | 68 | C | F751C686MCC | 10.9 | 10 | 0.22 | * |
| | 100 | C | F751C107MCC | 16.0 | 10 | 0.22 | * |
| | 150 | D | F751C157MDC | 24.0 | 10 | 0.22 | * |
| | 220 | R | F751C227MRC | 35.2 | 10 | 0.20 | * |

*1 : ΔC/C Marked "**"

| | F75 ALL Case (%) |
|---------------------------|------------------|
| Damp Heat | ±10 |
| Temperature cycles | ±5 |
| Resistance soldering heat | ±5 |
| Surge | ±5 |
| Endurance | ±10 |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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