

F72

Low Profile
Conformal
coated Chip

F75

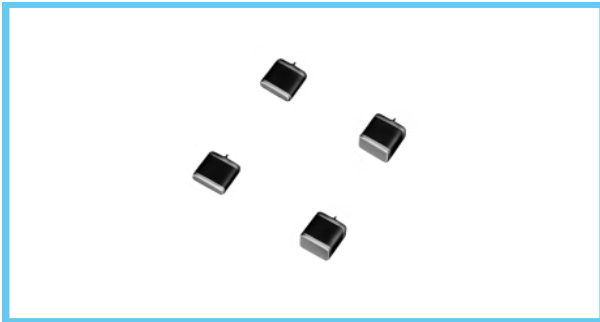
Maximum CV
Conformal
coated Chip

FRAMELESS™

Upgrade



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

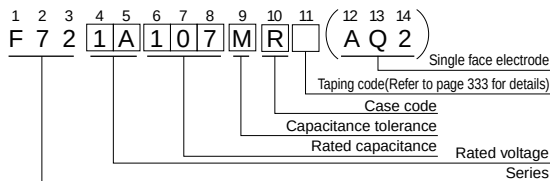


Applications

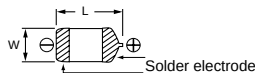
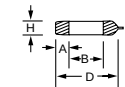
- Wireless modem
- Tablet PC
- e-book
- SSD
- Smart meter

F72

Type numbering system (Example : 10V 100μF)



Drawing



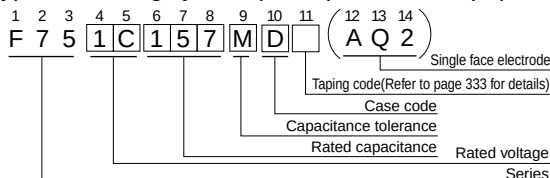
Dimensions

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	2.0 MAX.	1.3 ± 0.4	3.8 ± 0.6	(6.2)

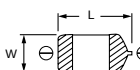
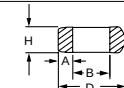
D dimension only for reference

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	• 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. 5N (0.51kg · f) For 10 ± 1 seconds
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. R230 20 45 45 1mm

* 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	2.0 MAX.	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

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Cap.(μF)	Code	V	4	6.3	10	16
68	686					C
100	107					C
150	157				C	D
220	227			C	C · D	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				

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■ 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

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■ 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.

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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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