

nichicon
MUSE F95

FRAMELESS™



For SMD



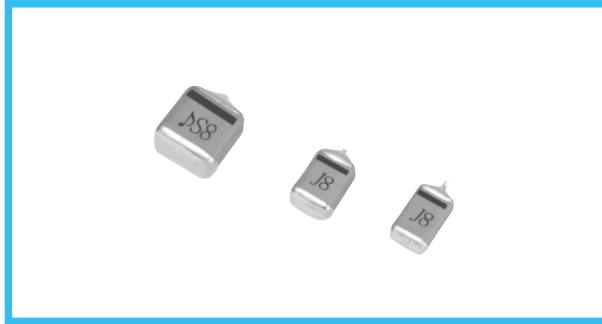
Smaller

For High
Frequency

For Audio Use

Conformal coated Chip, For Mobile Audio

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



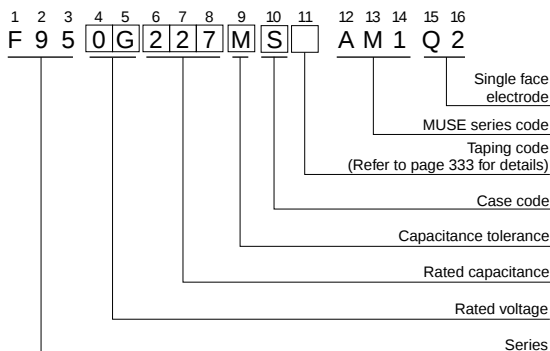
Applications

- Mobile Audio Player
- Smartphone
- Mobile phone
- Wireless Microphone System

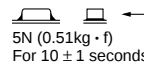
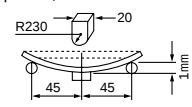
Feature

- Rich sound in the bass register and clear sound. Materials are strictly selected to achieve high level sound. F95 series has no lead-frame, and no vibration factor.
- Low ESR, Low ESL
- Line up miniature size and high capacitance, necessary to mobile design.

Type numbering system (Example : 4V 220μF)

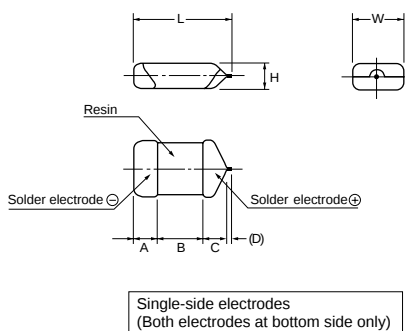


Specifications

Item	Performance Characteristics
Category	Temperature Range
Temperature Range	-55 to +125°C (Rated temperature : +85°C)
Capacitance Tolerance	±20%, ±10% (at 120Hz)
Dissipation Factor (at 120Hz)	Refer to next page
ESR(100kHz)	Refer to next page
Leakage Current	Refer to next page Provided that - After 1 minute's application of rated voltage, leakage current at 85°C, 10 times or less than 20°C specified value. - After 1 minute's application of rated voltage, leakage current at 125°C, 12.5 times or less than 20°C specified value.
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 next page (*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 next page (*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 next page (*1) Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less
Surge*	After application of surge voltage 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 next page (*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 next page (*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.

Drawing



Dimensions

Case code	L	W	H	A	B	C	(D)
P	2.2 ± 0.3	1.25 ± 0.3	1.0 ± 0.2	0.6 ± 0.3	0.8 ± 0.3	0.8 ± 0.3	(0.2)
S	3.2 ± 0.3	1.6 ± 0.3	1.0 ± 0.2	0.8 ± 0.3	1.2 ± 0.3	0.8 ± 0.3	(0.2)
A	3.2 ± 0.3	1.7 ± 0.3	1.4 ± 0.2	0.8 ± 0.3	1.2 ± 0.3	0.8 ± 0.3	(0.2)
T	3.5 ± 0.2	2.7 ± 0.2	1.0 ± 0.2	0.8 ± 0.2	1.2 ± 0.2	1.1 ± 0.2	(0.2)
B	3.5 ± 0.2	2.8 ± 0.2	1.8 ± 0.2	0.8 ± 0.3	1.2 ± 0.3	1.1 ± 0.3	(0.2)

D dimension only for reference

MUSE F95

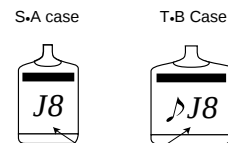
■ Standard Ratings

Cap. (μF)	V	4	6.3	10
	Code	0G	0J	1A
68	686	S	S	B
100	107	S	S • T	B
150	157	S	(A)	
220	227	(P) • S • T	(A) • (T) • B	
330	337	T	B	
470	477	(T) • B	(B)	
680	687	(T) • (B)		

() The series in parentheses are being developed.

Please contact to your local Nichicon sales office when these series are being designed in your application.

■ Marking



Rated Capacitance code

μF	68	100	150	220	330	470	680
code	W7	A8	E8	J8	N8	S8	W8

P case - No marking on part.

■ Standard Ratings

Rated Volt	Rated Capacitance (μF)	Case code	Part Number	*2 Leakage Current (μA)	Dissipation Factor (%@120Hz)	ESR (Ω@100kHz)	*1 ΔC/C (%)
4V	68	S	F950G686MSAAM1Q2	2.7	10	0.8	*
	100	S	F950G107MSAAM1Q2	4.0	14	0.8	*
	150	S	F950G157MSAAM1Q2	6.0	22	0.8	±15
	220	S	F950G227MSAAM1Q2	8.8	30	0.8	±15
	220	T	F950G227MTAAM1Q2	8.8	25	0.6	*
	330	T	F950G337MTAAM1Q2	13.2	40	0.8	±20
	470	B	F950G477MBAAM1Q2	18.8	40	0.4	±20
6.3V	68	S	F950J686MSAAM1Q2	4.3	14	0.9	*
	100	S	F950J107MSAAM1Q2	6.3	20	0.9	±15
	100	T	F950J107MTAAM1Q2	6.3	14	0.6	*
	220	B	F950J227MBAAM1Q2	13.9	30	0.4	*
	330	B	F950J337MBAAM1Q2	20.8	35	0.6	±20
10V	68	B	F951A686MBAAM1Q2	6.8	12	0.4	*
	100	B	F951A107MBAAM1Q2	10.0	14	0.4	*

※ In case of capacitance tolerance ± 10% type, [K] will be put at 9th digit of type numbering system.

1 : ΔC/C Marked ""

Item	S • A • T • B Case (%)
Damp Heat	±10
Temperature cycles	±5
Resistance soldering heat	±5
Surge	±5
Endurance	±10

*2 : Leakage Current

After 1 minute's application of rated voltage, leakage current at 20°C.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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