SOLID TANTALUM ELECTROLYTIC CAPACITORS

MUSE F95

FRAMELESS TM



Conformal coated Chip, For Mobile Audio

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



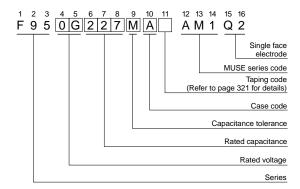
Applications

- Mobile Audio Player
- Digital still camera
- ◆ Digital video camcorder
 ◆ Mobile phone

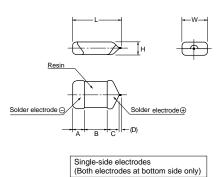
Feature

- 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)



■Drawing



■Specifications

Item	Performance Characteristics			
Category Temperature Range	-55 to +125°C (Rated temperature : +85°C)			
Capacitance Tolerance	±20% (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			
Desistance to	Reflow at 260°C for 10 seconds			
Resistance to Soldering Heat	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 meet the characteristics requirements listed 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, or derated voltage at 125°C, capacitors meet the characteristic requirements listed 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 an aluminum 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 the capacitor, the pressure strength is applied with a specified jig at the center of the 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 and derated voltage at 125°C, refer to page 320 for details.

Dimensions

							, ,
Case code	L	W	Н	Α	В	С	(D)
Р	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)
Α	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)
Т	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)
В	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

680

W8

S8



MUSE F95

■ Standard Ratings

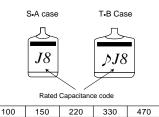
	V	4	6.3	10
Cap. (µF)	Code	0G	0J	1A
68	686	S	S•A	В
100	107	S	S•A•T	В
150	157	S	(A)	
220	227	(P) • S • A • T	(A) • (T) • B	
330	337	T•B	В	
470	477	В		•
680	687	(B)		

() 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

μF

code



J8

N8

W7 P case - No marking on part.

68

A8

E8

Standard Ratings

Rated Volt	Rated Capacitance (µF)	Case code	Part Number	*2 Leakage Current (µA)	Disspation Factor (%@120Hz)	ESR (Ω@100kHz)	*1 ∆C/C (%)
	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
4∨	220	Α	F950G227MAAAM1Q2	8.8	25	0.8	±15
	220	Т	F950G227MTAAM1Q2	8.8	25	0.6	*
	330	Т	F950G337MTAAM1Q2	13.2	40	0.8	±20
	330	В	F950G337MBAAM1Q2	13.2	30	0.5	±15
	470	В	F950G477MBAAM1Q2	18.8	40	0.4	±20
	68	S	F950J686MSAAM1Q2	4.3	14	0.9	*
	68	Α	F950J686MAAAM1Q2	4.3	12	0.5	*
	100	S	F950J107MSAAM1Q2	6.3	20	0.9	±15
6.3∨	100	Α	F950J107MAAAM1Q2	6.3	14	0.5	*
	100	Т	F950J107MTAAM1Q2	6.3	14	0.6	*
	220	В	F950J227MBAAM1Q2	13.9	30	0.4	*
	330	В	F950J337MBAAM1Q2	20.8	35	0.6	±20
10V	68	В	F951A686MBAAM1Q2	6.8	12	0.4	*
100	100	В	F951A107MBAAM1Q2	10.0	14	0.4	*

*1 : ∆C/C

I t e m	S·A·T·B Case (%)
Damp Heat	±10
Tempereature 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.