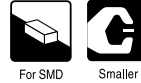


SOLID TANTALUM ELECTROLYTIC CAPACITORS

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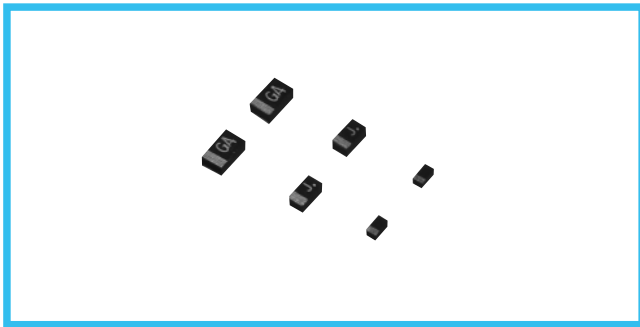
F98 Resin-molded Chip,
High Capacitance Series

FRAMELESS™



Upgrade

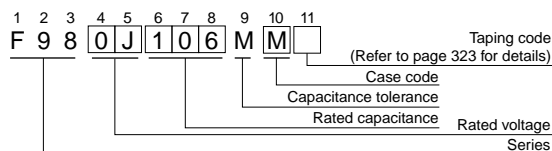
● Compliant to the RoHS directive (2002/95/EC).



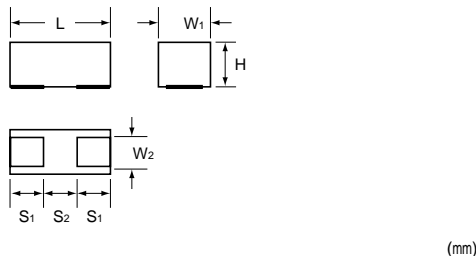
Applications

- Smartphone
- Wireless module
- Mobile phone
- Hearing aid

Type numbering system (Example : 6.3V 10μF)

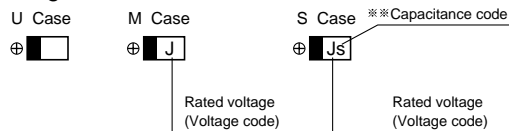


Drawing



Case Code	L	W ₁	W ₂	H	S ₁	S ₂
U	1.10 ± 0.05	0.60 ± 0.05	0.35 ± 0.05	0.55 ± 0.05	0.3 ± 0.05	0.5 ± 0.05
M	1.6 ^{+0.2} _{-0.1}	0.85 ^{+0.2} _{-0.1}	0.65 ± 0.1	0.8 ± 0.1	0.5 ± 0.1	0.6 ± 0.1
S	2.0 ^{+0.2} _{-0.1}	1.25 ^{+0.2} _{-0.1}	0.9 ± 0.1	0.8 ± 0.1	0.5 ± 0.1	1.0 ± 0.1

Marking



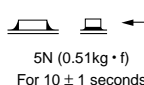
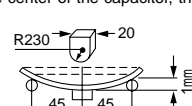
Standard Ratings

Cap. (μF)	V	Code							※ ※ Capacitance code
		4	6.3	10	16	20	25		
1	105				M	M	M	—	
2.2	225			U · M	M			—	
4.7	475	U	U · M	(U) · M	M			—	
10	106	U	U · M	M	S			a	
22	226	M	M	(M) · S				J	
33	336	M	M	S				n	
47	476	M	M · S	S				s	
68	686	M · S						w	
100	107	(M) · S	(S)					A	
220	227	(S)						J	

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

We can consider the type of compliance to AEC-Q200.
Please contact to your local Nichicon sales office when these series are being designed in your application.

Specifications

Item	Performance Characteristics
Category	
Temperature Range	-55 to +125°C (Rated temperature : 85°C)
Capacitance Tolerance	±20% (at 120Hz)
Dissipation Factor	Refer to the list below
ESR	Refer to the list below
Leakage Current	Refer to next page Provided that • After 5 minute's application of rated voltage, leakage current at 85°C, 10 times or less than 20°C specified value. • After 5 minute's application of rated voltage, leakage current at 125°C, 12.5 times or less than 20°C specified value.
Damp Heat (Steady State)	At 40°C, 90 to 95% R.H., For 500hours (No voltage applied) Capacitance Change ··· Refer to the list below (* 1) Dissipation Factor ····· 150% or less of initial specified value Leakage Current ······ 200% or less of initial specified value
Temperature Cycles	At -55°C / +125°C, For 30 minutes each, 5 cycles Capacitance Change ··· Refer to the list below (* 1) Dissipation Factor ····· 150% or less than the initial specified value Leakage Current ······ Initial specified value or less
Resistance to Soldering Heat	10 seconds reflow at 260°C, 5 seconds immersion at 260°C Capacitance Change ··· Refer to the list below (* 1) Leakage Current ······ Initial specified value or less Leakage Current ······ Initial specified value or less
Surge*	After application of surge in series with a 1kΩ 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 the list below (* 1) Dissipation Factor ····· 150% or less than the initial specified value Leakage Current ······ 200% or less than the initial specified value
Endurance*	After 1000 hours' application of rated voltage in series with a 3Ω resistor at 85°C, capacitors meet the characteristic requirements listed below Capacitance Change ··· Refer to the list below (* 1) Dissipation Factor ····· 150% or less than the initial specified value Leakage Current ······ 200% or less than the initial specified value
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 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 voltage, refer to page 322 for details.

Rated Volt	Rated Capacitance (μF)	Case code	Part Number	Leakage Current (μA)	*1 Dissipation Factor (% @ 120Hz)	ESR (Ω @ 100kHz)	ΔC/C (%)
4V	4.7	U	F980G475MUA	0.5	20	20	±30
	10	U	F980G106MUA	0.8	25	20	±30
	22	M	F980G226MMA	0.9	15	7.5	±30
	33	M	F980G336MMA	1.3	30	4	±30
	47	M	F980G476MMA	1.9	40	8	±30
	68	M	F980G686MMA	27.2	50	10	±30
	68	S	F980G686MSA	2.7	30	4	±30
	100	S	F980G107MSA	4.0	35	4	±30
6.3V	4.7	U	F980J475MUA	0.6	20	20	±30
	4.7	M	F980J475MMA	0.5	20	7.5	±30
	10	U	F980J106MUA	3.2	30	30	±30
	10	M	F980J106MMA	0.6	8	6	±30
	22	M	F980J226MMA	1.4	20	6	±30
	33	M	F980J336MMA	4.2	35	8	±30
	47	M	F980J476MMA	29.6	45	10	±30
	47	S	F980J476MSA	3.0	25	6	±30
10V	2.2	U	F981A225MUA	0.5	15	15	±30
	2.2	M	F981A225MMA	0.5	6	7.5	±30
	4.7	M	F981A475MMA	0.5	6	6	±30
	10	M	F981A106MMA	1.0	20	7.5	±30
	22	S	F981A226MSA	2.2	20	4	±30
	33	S	F981A336MSA	3.3	30	6	±30
47	S	F981A476MSA	9.4	35	5	±30	
16V	1	M	F981C105MMA	0.5	6	10	±30
	2.2	M	F981C225MMA	0.5	6	10	±30
	4.7	M	F981C475MMA	0.8	12	12	±30
	10	S	F981C106MSA	1.6	18	4	±30
20V	1	M	F981D105MMA	0.5	6	10	±30
25V	1	M	F981E105MMA	0.5	8	10	±30

*1 : Leakage Current

After 5 minute's application of rated voltage, leakage current at 20°C.

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