

SOLID TANTALUM ELECTROLYTIC CAPACITORS

nichicon

F95

Conformal coated
Chip

FRAMELESS™



For SMD



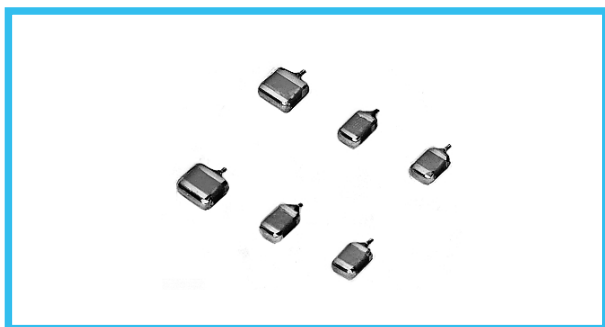
Smaller



For High Frequency

Upgrade

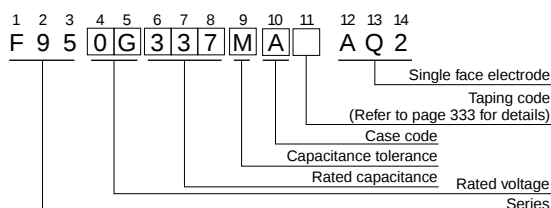
- Compliant to the RoHS directive (2002/95/EC).



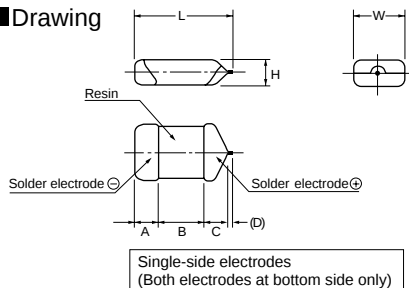
Applications

- Smartphone
- Tablet PC
- Wireless module
- e-book

Type numbering system (Example : 4V 330μF)



Drawing



Dimensions

Case code	L	W	H	A	B	C	(D)
R	2.2 ± 0.3	1.25 ± 0.3	0.65MAX.	0.6 ± 0.3	0.8 ± 0.3	0.5MIN	(0.2)
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)
Q	3.2 ± 0.2	1.6 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	1.2 ± 0.2	0.8 ± 0.2	(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

Standard Ratings

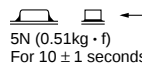
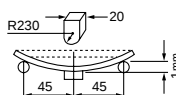
Cap. (μF)	V	4	6.3	10	16	20	25	35
1	Code	0G	0J	1A	1C	1D	1E	1V
1.5	105							P · S
2.2	155							
3.3	225					P	R · P	A
4.7	335							
6.8	475				R · P	S · A	P · Q · S · A	B
10	685						(Q) · (S)	
15	106			R · P	P · Q · S · A	S · A · B	A · (T) · B	
22	156			P	S · A			
33	226		R	P · Q · S · A	Q · S · A · T · B	B		
47	336		(R) · P	P · Q · S · A	(A) · T · B			
68	476		(R)	P	P · (Q) · S · A · T · B	B		
100	686		P	B				
150	107	P · S · A	P · Q · S · A · T · B	(S) · A · T · B				
220	157	P · B	B					
330	227	(P) · Q · S · A · T · B	(S) · (A) · (T) · B					
470	337	(P) · (S) · A · T · B	B					
680	477	(P) · (A) · (T) · B	(B)					
	687	(T)						

() The series in parentheses are being developed.

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

CAT.8100B

Specifications

Item	Performance Characteristics
Category	–55 to +125°C (Rated temperature : +85°C)
Temperature Range	
Capacitance Tolerance	±20%, ±10% (at 120Hz) (However R · P Case ±20%)
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. 
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.

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■ 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	100	P	F950G107MPAAQ2	4.0	30	1.2	±15
	100	S	F950G107MSAAQ2	4.0	14	0.8	*
	100	A	F950G107MAAAQ2	4.0	12	0.5	*
	150	P	F950G157MPAAQ2	12.0	31	1.1	±20
	150	B	F950G157MBAAQ2	6.0	14	0.4	*
	220	Q	F950G227MQAAQ2	8.8	30	1.5	±20
	220	S	F950G227MSAAQ2	8.8	30	0.8	±15
	220	A	F950G227MAAAQ2	8.8	25	0.8	±15
	220	T	F950G227MTAAQ2	8.8	25	0.6	*
	220	B	F950G227MBAAQ2	8.8	16	0.4	*
	330	A	F950G337MAAAQ2	13.2	40	0.8	±20
	330	T	F950G337MTAAQ2	13.2	40	0.8	±20
	330	B	F950G337MBAAQ2	13.2	30	0.6	±15
	470	B	F950G477MBAAQ2	18.8	40	0.4	±20
6.3V	22	R	F950J226MRAAQ2	1.4	20	2.0	±20
	33	P	F950J336MPAAQ2	2.1	14	1.1	*
	47	P	F950J476MPAAQ2	3.0	20	1.1	±15
	68	P	F950J686MPAAQ2	4.3	25	1.2	±15
	100	P	F950J107MPAAQ2	12.6	35	1.2	±20
	100	Q	F950J107MQAAQ2	6.3	30	1.1	±20
	100	S	F950J107MSAAQ2	6.3	20	0.9	±15
	100	A	F950J107MAAAQ2	6.3	14	0.5	*
	100	T	F950J107MTAAQ2	6.3	14	0.6	*
	100	B	F950J107MBAAQ2	6.3	14	0.4	*
	150	B	F950J157MBAAQ2	9.5	18	0.4	*
	220	B	F950J227MBAAQ2	13.9	30	0.4	*
	330	B	F950J337MBAAQ2	20.8	35	0.6	±20
10V	10	R	F951A106MRAAQ2	1.0	18	3.0	±20
	10	P	F951A106MPAAQ2	1.0	8	3.0	*
	15	P	F951A156MPAAQ2	1.5	10	3.0	*
	22	P	F951A226MPAAQ2	2.2	14	3.0	*
	22	Q	F951A226MQAAQ2	2.2	10	2.0	*
	22	S	F951A226MSAAQ2	2.2	10	1.1	*
	22	A	F951A226MAAAQ2	2.2	6	0.9	*
	33	P	F951A336MPAAQ2	3.3	20	3.0	±15
	33	Q	F951A336MQAAQ2	3.3	18	3.0	±15
	33	S	F951A336MSAAQ2	3.3	10	1.1	*
	33	A	F951A336MAAAQ2	3.3	10	0.8	*
	47	P	F951A476MPAAQ2	4.7	30	3.0	±20
	47	S	F951A476MSAAQ2	4.7	14	1.1	±15
	47	A	F951A476MAAAQ2	4.7	10	0.8	*
	47	T	F951A476MTAAQ2	4.7	12	0.8	*
	47	B	F951A476MBAAQ2	4.7	8	0.4	*
	68	B	F951A686MBAAQ2	6.8	12	0.4	*
	100	A	F951A107MAAAQ2	10.0	35	1.0	±15
	100	T	F951A107MTAAQ2	10.0	20	0.6	±15
	100	B	F951A107MBAAQ2	10.0	14	0.4	*
16V	4.7	R	F951C475MRAAQ2	0.8	12	6.0	±20
	4.7	P	F951C475MPAAQ2	0.8	10	4.0	*
	10	P	F951C106MPAAQ2	1.6	10	4.0	*
	10	Q	F951C106MQAAQ2	1.6	8	3.0	*
	10	S	F951C106MSAAQ2	1.6	8	2.0	*
	10	A	F951C106MAAAQ2	1.6	6	1.4	*
	15	S	F951C156MSAAQ2	2.4	8	2.0	*
	15	A	F951C156MAAAQ2	2.4	8	1.4	*
	22	Q	F951C226MQAAQ2	3.5	12	3.0	*
	22	S	F951C226MSAAQ2	3.5	10	2.0	±15
20V	2.2	P	F951D225MPAAQ2	0.5	6	6.0	*
	4.7	S	F951D475MSAAQ2	0.9	8	4.0	*
	4.7	A	F951D475MAAAQ2	0.9	6	1.5	*
	10	S	F951D106MSAAQ2	2.0	10	4.0	±10
	10	A	F951D106MAAAQ2	2.0	8	1.5	*
	10	B	F951D106MBAAQ2	2.0	6	0.8	*
	22	B	F951D226MBAAQ2	4.4	8	0.8	*
25V	1	R	F951E105MRAAQ2	0.5	10	10.0	±10
	2.2	R	F951E225MRAAQ2	0.6	15	15.0	±20
	2.2	P	F951E225MPAAQ2	0.6	8	6.0	±15
	4.7	P	F951E475MPAAQ2	1.2	10	8.0	±15
	4.7	Q	F951E475MQAAQ2	1.2	10	4.0	±15
	4.7	S	F951E475MSAAQ2	1.2	8	4.0	*
	4.7	A	F951E475MAAAQ2	1.2	8	2.0	*
	10	A	F951E106MAAAQ2	2.5	12	2.0	±15
35V	10	B	F951E106MBAAQ2	2.5	6	0.9	*
	1	P	F951V105MPAAQ2	0.5	8	10.0	±10
	1	S	F951V105MSAAQ2	0.5	6	8.0	*
	2.2	A	F951V225MAAAQ2	0.8	6	4.4	*
	4.7	B	F951V475MBAAQ2	1.7	6	1.6	*

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

1 : ΔC/C Marked ""

Item	P·Q·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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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