

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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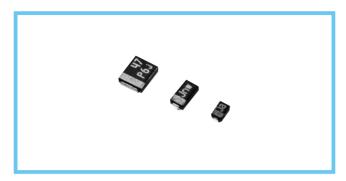




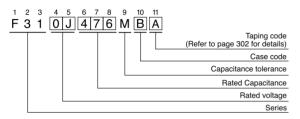
Conductive Polymer Resin-molded Chip,
Compact Series

For SMD Smaller Low Impedance For High

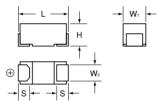
• Adapted to the RoHS directive (2002/95/EC).



■ Type numbering system (Example : 6.3V 47µF)

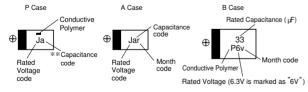


Dimensions



					(111111)
Case code	L	W ₁	W ₂	Н	S
Р	2.0±0.2	1.25±0.1	0.9±0.1	1.1±0.1	0.5±0.2
A	3.2±0.2	1.6±0.2	1.2±0.1	1.1±0.1	0.8±0.2
В	3.4±0.2	2.8±0.2	2.3±0.1	1.1±0.1	0.8±0.2

Marking



Standard ratings

		2.5	4	6.3	10	* * Capacitance
Cap. (µF)	Code	0E	0G	OJ	1A	code
10	106		Р	Р	Α	а
22	226	Р	Р	(P) • A	(A) • B	J
33	336	Α	Α	(A) • B	В	n
47	476	Α	(A) • B	В	В	s
68	686			В		-
100	107	В	В	(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.

■Specifications

Item	Performance Characteristics				
Category Temperature Range	-55 to +105°C (Rated temperature + 85°C)				
Capacitance Tolerance	±20% (120Hz)				
Dissipation Factor(at 120Hz)	Refer to the list below				
ESR (100kHz)	Refer to the list below				
Leakage Current	-After 5 minutes' application of rated voltage, leakage current at 20°C is not more than 0.1CV				
Ripple Current	Refer to the list below				
	At 60°C, 90 to 95% R.H. 500hours (No voltage applied)				
Damp Heat (Steady State)	Capacitance Change··Within –20 to +30% of initial value Dissipation Factor······1.5 times Initial specified value or less Leakage Current·······Initial specified value or less				
	–55°C / +105°C 30 minutes each 5 cycle				
Temperature Cycles	Capacitance Change. Within ±20% of initial value Dissipation FactorInitial specified value or less Leakage CurrentInitial specified value or less				
	Test Condition;10 second reflow at 240°C				
Resistance to Soldering Heat	Capacitance Change··Within ±20% of initial value Dissipation Factor······1.3 times Initial specified value or less Leakage Current·······Initial specified value or less				
Surge	After application of surge voltage 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				
Endurance 1	After 1000 hours' application of rated voltage in series with a 3Ω resistor at 85°C. Capacitance Change····Within ±20% of initial value Dissipation Factor····1.5 times Initial specified value or less Leakage Current···Initial specified value or less				
Endurance 2	After 1000 hours' application of rated voltage in series with a 3Ω resistor at 105°C,capacitors meet the characteristic requirements listed below Capacitance Change····Within ±20% of initial value Dissipation Factor···3 times Initial specified value or less Leakage Current···Initial specified value or less				
After applying the pressure load of 5N for 10±1 seconds horizontally to the center of capacitor side body which has 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.				

 $[\]ast$ As for the surge voltage refer to page 301 for details.

■ Standard ratings

Rated Volt (V)	Rated Capacitance (µF)	Case code	Part Number	Leakage Current (µA)	Disspation Factor (%@120Hz)	ESR (mΩ@100kHz)	Rated Ripple (mArms@100kHz)
	22	Р	F310E226MPA	5.5	6	200	354
2.5	33	Α	F310E336MAA	8.3	6	150	632
	47	Α	F310E476MAA	11.8	6	150	632
	100	В	F310E107MBA	25.0	8	70	1035
4	10	Р	F310G106MPA	4.0	6	200	354
	22	Р	F310G226MPA	8.8	6	200	354
	33	Α	F310G336MAA	13.2	6	150	632
	47	В	F310G476MBA	18.8	8	70	1035
	100	В	F310G107MBA	40.0	8	70	1035
	10	Р	F310J106MPA	6.3	6	200	354
6.3	22	Α	F310J226MAA	13.9	6	200	548
	33	В	F310J336MBA	20.8	8	70	1035
	47	В	F310J476MBA	29.6	8	70 (55)*	1035
	68	В	F310J686MBA	42.8	8	70	1035
10	10	Α	F311A106MAA	10.0	6	200	548
	22	В	F311A226MBA	22.0	8	70	1035
	33	В	F311A336MBA	33.0	8	70	1035
	47	В	F311A476MBA	47.0	8	70	1035

^{* ()} ESR specification types are also available upon request.

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