imall

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!



Contact us

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CONDUCTIVE POLYMER TANTALUM SOLID ELECTROLYTIC CAPACITORS nichicon



Conductive Polymer Resin-molded Chip, High Capacitance Series



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



V - V		4	0.3	10	Capacitance
Cap.(µF)	Code	0G	OJ	1A	code
4.7	475			М	S
10	106	М	M	M·S	а
22	226	М	M·S	(S)	J
33	336	S	S		n
47	476	S	(S)		S

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

Standard rating

		-					
Rated Volt (V)	Rated Capacitance (µF)	Case code	Part Number	Leakage Current (µF)	Disspation Factor (%@120Hz)	ESR (mΩ@100kHz)	Rated Ripple (mArms@100kHz)
4	10	М	F380G106MMA	4.0	6	200	350
	22	М	F380G226MMA	8.8	6	200	350
	33	S	F380G336MSA	13.2	6	200	450
	47	S	F380G476MSA	18.8	6	200	450
6.3	10	М	F380 J 106MMA	6.3	6	200	350
	22	М	F380 J 226MMA	13.9	6	200	350
	22	S	F380J226MSA	13.9	6	200	450
	33	S	F380J336MSA	20.8	6	200	450
10	4.7	М	F381A475MMA	4.7	6	200	350
	10	М	F381A106MMA	10.0	6	200	350
	10	S	F381A106MSA	10.0	6	200	450

■ 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 minute's application of rated voltage, leakage current at 20°C is not more than 0.1CV				
Ripple Current	Refer to the list below				
Damp Heat (No voltage applied)	At 60°C, 90 to 95% R.H. 500hours Capacitance Change Within –20 to +30% of initial value Dissipation Factor1.5 times initial specified value or less Leakage CurrentInitial specified value or less				
	-55°C / +105°C 30 minutes each 5 cycle				
Temperature Cycles	Capacitance Change Within ±20% of initial value Dissipation Factor·····Initial specified value or less Leakage Current······Initial specified value or less				
	Test Condition ; 10 second reflow at 240°C				
Resistance to Soldering Heat	Capacitance Change Within ±20% of initial value Dissipation Factor1.3 times initial specified value or less Leakage CurrentInitial 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 sucessive test cycles at 85°C, capacitors meet the characteristics requirements listed below. Capacitance ChangeWithin ±20% of initial value Dissipation FactorInitial specified value or less Leakage CurrentInitial specified value or less				
Endurance 1	After 1000 hours' application of rated voltage in series with a 3Ω resistor at 85°C. Capacitance ChangeWithin ±20% of initial value Dissipation Factor1.5 times initial specified value or less Leakage CurrentInitial specified value or less				
Endurance 2	After 1000 hours' application of derated voltage in series with a 3Ω resistor at 105°C,capacitors meet the characteristic requirements listed below Capacitance ChangeWithin ±20% of initial value Dissipation Factor3 times initial specified value or less Leakage CurrentInitial 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 5N (0.51kg · f) terminal electrode. 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 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 301 for details.

