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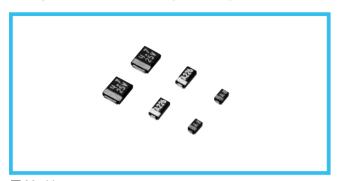
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Resin-molded Chip, **Compact Series**



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



■ Marking **Rated capacitance code Rated capacitance (μF) P Case A Case B Case G226 22 10V \oplus Rated voltage Rated capacitance (Voltage code) (Capacitance code) Rated voltage (V) 4V G 6.3V J 16V C 35V V 6.3V 20V D 10V Α 25V E

* * Capacitance code of "P" case products are as shown below.

Specifications

Specifications				
Item	Performance Characteristics			
nom	P Case	A • B Case		
Category Temperature Range	-55 to +125°C (Rated temperature : +85°C)			
Capacitance Tolerance	±20% (at 120Hz)			
Dissipation Factor (120Hz)	Refer to Next Page			
ESR (100kHz)	Refer to Next Page			
Leakage Current	After 1 minute's application of rated voltage, leakage current at 20°C is not more than 0.01CV or 0.5μA, whichever is greater. After 1 minute's application of rated voltage, leakage current at 85°C is not more than 0.1CV or 5μA, whichever is greater. After 1 minute's application of derated voltage, leakage current at 125°C is not more than 0.125CV or 6.3μA, whichever is greater.			
Capacitance Change by Temperature	+20% Max. (at +125°C) +15% Max. (at +85°C) -15% Max. (at -55°C)	+15% Max. (at +125°C) +10% Max. (at +85°C) -10% Max. (at -55°C)		
	At 40°C 90 to 95% R.H. 500 hours (No voltage applied)			
Damp Heat (Steady State)	Capacitance Change Refer to next page (*1) Dissipation Factor150% or less than the initial specified value Leakage Current Initial specified value or less	Refer to next page (*1) Initial specified value or less Initial specified value or less		
	-55°C / +125°C 30 minutes each 5 cycles			
Temperature Cycles	Capacitance Change Refer to next page (*1) Dissipation Factor(50% or less than the initial specified value Leakage Current Initial specified value or less	Refer to next page (*1) Initial specified value or less Initial specified value or less		

10

1A

Р

P • A P•A

P · A

P • A

A • В

В В

16

1C

Р

Р

P · A

(P) • A • B

А • В

В

20

1D

P · A

Α P · A

Α (P) • A

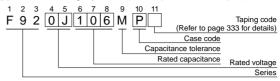
А • В

В

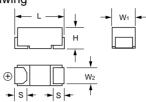
Standard Ratings

	V	4	6.3	
Cap. (µF)	Code	0G	0J	
0.22	224			
0.33	334			
0.47	474			
0.68	684			
1	105			
1.5	155			
2.2	225		Р	
3.3	335	Р	Р	
4.7	475	Р	Р	
6.8	685	Р	Р	
10	106	P • A	P•A	
15	156	Р	P•A	
22	226	P•A	P•A	
33	336	P•A	A • B	
47	476	(P) • A • B	A • B	
68	686	A • B		
100	107	A • B	(A) • B	
150	157	В		-
220	227	(B)		

■ Type numbering system (Example: 6.3V 10µF)



Drawing



Dimensions

11011010110	•				(mm)
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
Α	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

		В	$3.4 \pm 0.2 \mid 2.8 \pm 0.2 \mid 2.3 \pm 0.1$	$1.1 \pm 0.1 \mid 0.8 \pm 0.2$		
			10 seconds reflow at 260°C, 5 seconds immersion at 260°C			
	Resistance to Soldering Heat		Capacitance Change Refer to next page (*1) Dissipation Factor150% of less than the initial specified value Leakage Current Initial specified value or less	Refer to next page (*1) Initial specified value or less Initial specified value or less		
			After application of surge voltage in series with a 33 Ω (For "P" case : 1k Ω 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.			
	Surge*		Capacitance Change Refer to next page (*1)	Refer to next page (*1)		
			Dissipation Factor150% or less than the initial specified value Leakage Current	Initial specified value or less		
			Initial specified value or less	Initial specified value or less		
	Endurand	ce*	After 2000hours' application of rated voltage in series with a 3Ω resistor at 85°C, or derated voltage in series with a 3Ω resistor at 125°C, capacitors shall meet the characteristic requirements table below. Capacitance Change··· Refer to next page (*1) Dissipation Factor···150% or less than the initial specified value Leakage Current··· Initial specified value or less	After 2000hours' application of rated voltage in series with a 3Ω resistor at $85^{\circ}\mathrm{C}$, or derated voltage in series with a 3Ω resistor at $125^{\circ}\mathrm{C}$, capacitors shall meet the characteristic requirements table below. Capacitance Change Refer to next page (*1) Dissipation Factor Initial specified value or less Leakage Current		
	Shear Te	st	After applying the pressure load 10±1 seconds horizontally to the of capacitor side body which ha electrode and has been soldere beforehand on a substrate, ther found neither exfoliation nor its the terminal electrode.	to the center ch has no ldered there shall be		
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 and derated voltage at 125°C, refer to page 332 for details. 25

1E

P · A

A • B

A • B

35

1V Α Α

Α

Α

В

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

* * Capacitance code

Ν

S W

Α

S

w

а е

F92

■ Standard Ratings

Rated Volt	Rated Capacitance (µF)	Case code	Part Number	Leakage Current (µA)	Disspation Factor (%@120Hz)	ESR (Ω@100kHz)	*1 ∆C/((%)
	3.3	Р	F920G335MPA	0.5	8	12.0	*
	4.7	Р	F920G475MPA	0.5	8	6.0	*
	6.8	Р	F920G685MPA	0.5	10	6.0	*
	10	Р	F920G106MPA	0.5	10	6.0	*
	10	Α	F920G106MAA	0.5	8	4.0	*
	15	Р	F920G156MPA	0.6	10	5.0	*
	22	Р	F920G226MPA	0.9	20	5.0	*
	22	Α	F920G226MAA	0.9	12	2.8	*
4V	33	Р	F920G336MPA	1.3	20	4.0	*
• •	33	A	F920G336MAA	1.3	12	2.8	*
	47	A	F920G476MAA	1.9	18	2.8	*
	47	В	F920G476MBA	1.9	12	1.7	*
	68	A	F920G686MAA	2.7	25	2.8	±1
	68	В	F920G686MBA	2.7	18	1.5	*
	100	A	F920G107MAA	4.0	30	2.8	±1
	100	В	F920G107MBA	4.0	18	1.3	*
		В	F920G107MBA				
	150		F920G 157 WIBA	6.0	25	1.3	±1
	2.2	Р	F920J225MPA	0.5	8	12.0	*
	3.3	Р	F920J335MPA	0.5	8	12.0	*
	4.7	Р	F920J475MPA	0.5	8	6.0	*
	6.8	Р	F920J685MPA	0.5	10	6.0	*
	10	Р	F920J106MPA	0.6	10	6.0	*
	10	Α	F920J106MAA	0.6	8	4.0	*
	15	Р	F920J156MPA	0.9	10	6.0	*
6.3V	15	Α	F920J156MAA	0.9	8	4.0	*
	22	Р	F920J226MPA	1.4	20	5.0	*
	22	Α	F920J226MAA	1.4	12	2.8	*
	33	A	F920J336MAA	2.1	12	2.8	*
	33	В	F920J336MBA	2.1	12	1.7	*
	47	A	F920J476MAA	3.0	18	2.8	±1
	47	В	F920J476MBA	3.0	12	1.7	*
	100	В	F920J107MBA	6.3	20	1.3	±1
	1	P	F921A105MPA	0.5	8	12.0	*
	1.5	Р	F921A155MPA	0.5	8	12.0	*
	2.2	P	F921A225MPA	0.5	8	12.0	*
	3.3	P	F921A335MPA	0.5	8	12.0	*
	3.3	Α	F921A335MAA	0.5	6	7.0	*
	4.7	Р	F921A475MPA	0.5	8	6.0	*
	4.7	Α	F921A475MAA	0.5	6	4.0	*
10V	6.8	Р	F921A685MPA	0.7	8	6.0	*
100	6.8	Α	F921A685MAA	0.7	6	4.0	*
	10	Р	F921A106MPA	1.0	14	6.0	*
	10	Α	F921A106MAA	1.0	8	4.0	*
	15	Α	F921A156MAA	1.5	8	4.0	*
	22	Α	F921A226MAA	2.2	14	4.0	±1
	22	В	F921A226MBA	2.2	8	1.9	*
	33	В	F921A336MBA	3.3	12	1.9	*
	47	В	F921A476MBA	4.7	18	1.9	±1
	0.47	P	F921C474MPA	0.5	8	20.0	*
	0.68	Р	F921C684MPA	0.5	8	12.0	*
	1	P	F921C105MPA	0.5	8	12.0	*
	1.5	P	F921C155MPA	0.5	8	12.0	*
	2.2	P	F921C155MPA	0.5	8	12.0	*
			F921C225MPA				
1617	2.2	A		0.5	6	7.0	*
16V	3.3	A	F921C335MAA	0.5	6	7.0	*
	4.7	A	F921C475MAA	0.8	6	7.0	*
	4.7	В	F921C475MBA	0.8	6	3.0	*
	6.8	В	F921C685MBA	1.1	6	3.0	*
	10	A	F921C106MAA	1.6	8	7.0	±1
	10	В	F921C106MBA	1.6	6	2.0	*
	22	В	F921C226MBA	3.5	12	2.0	±1

Rated Volt	Rated Capacitance (µF)	Case code	Part Number	Leakage Current (µA)	Disspation Factor (%@120Hz)	ESR (Ω@100kHz)	*1 ∆C/C (%)
	0.47	Р	F921D474MPA	0.5	8	20.0	*
	0.47	Α	F921D474MAA	0.5	4	10.0	*
	0.68	Α	F921D684MAA	0.5	4	10.0	*
	1	Р	F921D105MPA	0.5	8	20.0	*
2017	1	Α	F921D105MAA	0.5	4	10.0	*
20V	1.5	Α	F921D155MAA	0.5	6	7.4	*
	2.2	Α	F921D225MAA	0.5	6	7.0	*
	4.7	Α	F921D475MAA	0.9	10	7.0	±10
	4.7	В	F921D475MBA	0.9	6	3.0	*
	10	В	F921D106MBA	2.0	8	3.0	±10
	1	Р	F921E105MPA	0.5	8	20.0	*
	1	Α	F921E105MAA	0.5	6	10.0	*
05)/	2.2	Α	F921E225MAA	0.6	8	10.0	±15
25V	2.2	В	F921E225MBA	0.6	6	4.0	*
	4.7	Α	F921E475MAA	1.2	10	7.0	±10
	4.7	В	F921E475MBA	1.2	6	3.0	*
	0.22	Α	F921V224MAA	0.5	4	10.0	*
	0.33	Α	F921V334MAA	0.5	4	10.0	*
35V	0.47	Α	F921V474MAA	0.5	4	10.0	*
337	1	Α	F921V105MAA	0.5	6	10.0	*
	2.2	В	F921V225MBA	0.8	6	4.0	±10
	3.3	В	F921V335MBA	1.2	10	4.0	±10

1 : \(\Delta C/C \) Marked ""

Item	P Case (%)	A, B Case(%)
Damp Heat	±20	±10
Tempereature cycles	±10	± 5
Resistance soldering heat	±10	± 5
Surge	±10	± 5
Endurance	±10	±10

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.