F92 Series

Resin-Molded Chip, Low Profile J-Lead



CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capac	itance	Rated Voltage										
μF	Code	4V (0G)	6.3V (0J)	10V (1A)	16V (1C)	20V (1D)	25V (1E)	35V (1V)	*Cap Code			
0.22	224							Α	J			
0.33	334							Α	N			
0.47	474				Р	A/P		Α	S			
0.68	684				Р	Α			W			
1.0	105			Р	Р	A/P	Р	Α	Α			
1.5	155			Р		Α			E			
2.2	225		Р	Р	A/P		A/B	В	J			
3.3	335	Р	Р	A/P	Α				N			
4.7	475	Р	Р	A/P	A/B		В		S			
6.8	685	Р	Р	Р	В				w			
10	106	Р	A/P	A/P ^(M)	В				а			
15	156	Р	P ^(M)	Α					e			
22	226	Α	A/P ^(M)	В					J			
33	336		В						n			
47	476	В	В						S			
68	686								W			
100	107	A ^(M) /B							Α			

Released ratings (M tolerance only)

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

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA)	DF @ 120Hz (%)	ESR @		100kHz RMS	Current (mA)		*1 ΔC/C (%)	MSL
AVA Part No.						100kHz (Ω)	25°C	60°C	85°C	125°C	- 1 Δυ/υ (%)	IVIOL
4 Volt												
F920G335#PA	Р	3.3	4	0.5	8	12.0	50	_	45	20	*	1
F920G475#PA	Р	4.7	4	0.5	8	6.0	71	-	64	28	*	1
F920G685#PA	Р	6.8	4	0.5	10	6.0	71	_	64	28	*	1
F920G106#PA	Р	10	4	0.5	10	6.0	71	-	64	28	*	1
F920G156#PA	Р	15	4	0.6	10	5.0	77	_	70	31	*	1
F920G226#AA	Α	22	4	0.9	12	2.8	146	_	132	59	*	1
F920G476#BA	В	47	4	1.9	12	1.7	210	_	189	84	*	1
F920G107MAA	Α	100	4	4.0	30	2.8	146	_	132	59	±15	1
F920G107#BA	В	100	4	4.0	18	1.3	240	_	216	96	*	1
					6.3	Volt						
F920J225#PA	Р	2.2	6.3	0.5	8	12.0	50	_	45	20	*	1
F920J335#PA	Р	3.3	6.3	0.5	8	12.0	50	_	45	20	*	1
F920J475#PA	Р	4.7	6.3	0.5	8	6.0	71	_	64	28	*	1
F920J685#PA	Р	6.8	6.3	0.5	10	6.0	71	_	64	28	*	1
F920J106#AA	Α	10	6.3	0.6	8	4.0	122	_	110	49	*	1
F920J106#PA	Р	10	6.3	0.6	10	6.0	71	-	64	28	*	1
F920J156MPA	Р	15	6.3	0.9	10	6.0	71	_	64	28	*	1
F920J226#AA	Α	22	6.3	1.4	12	2.8	146	-	132	59	*	1
F920J226MPA	Р	22	6.3	1.4	20	5.0	77	_	70	31	*	1
F920J336#BA	В	33	6.3	2.1	12	1.7	210	_	189	84	*	1
F920J476#BA	В	47	6.3	3.0	12	1.7	210	_	189	84	*	3
					10 \	/olt						
F921A105#PA	Р	1	10	0.5	8	12.0	50	_	45	20	*	1
F921A155#PA	Р	1.5	10	0.5	8	12.0	50	-	45	20	*	1
F921A225#PA	Р	2.2	10	0.5	8	12.0	50	_	45	20	*	1
F921A335#AA	Α	3.3	10	0.5	6	7.0	93	-	83	37	*	1
F921A335#PA	Р	3.3	10	0.5	8	12.0	50	_	45	20	*	1
F921A475#AA	Α	4.7	10	0.5	6	4.0	122	_	110	49	*	1
F921A475#PA	Р	4.7	10	0.5	8	6.0	71	_	64	28	*	1
F921A685#PA	Р	6.8	10	0.7	8	6.0	71	-	64	28	*	1
F921A106#AA	Α	10	10	1.0	8	4.0	122	_	110	49	*	1
F921A106MPA	Р	10	10	1.0	14	6.0	71	_	64	28	*	1
F921A156#AA	Α	15	10	1.5	8	4.0	122	-	110	49	*	1
F921A226#BA	В	22	10	2.2	8	1.9	199	-	179	79	*	3

^{**}Rated temperature 60°C only. Please contact AVX when you need detail spec.

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RATINGS & PART NUMBER REFERENCE

AVOV Dona No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA)	DF @ 120Hz (%)	ESR @		100kHz RMS	Current (mA)		±1.40(0(0))	NACI
AVX Part No.						100kHz (Ω)	25°C	60°C	85°C	125°C	*1 ΔC/C (%)	MSL
	16 Volt											
F921C474#PA	Р	0.47	16	0.5	8	20.0	39	_	35	15	*	1
F921C684#PA	Р	0.68	16	0.5	8	12.0	50	_	45	20	*	1
F921C105#PA	Р	1	16	0.5	8	12.0	50	_	45	20	*	1
F921C225#AA	Α	2.2	16	0.5	6	7.0	93	-	83	37	*	1
F921C225#PA	Р	2.2	16	0.5	8	12.0	50	_	45	20	*	1
F921C335#AA	Α	3.3	16	0.5	6	7.0	93	-	83	37	*	1
F921C475#AA	Α	4.7	16	0.8	6	7.0	93	_	83	37	*	1
F921C475#BA	В	4.7	16	0.8	6	3.0	158	-	142	63	*	1
F921C685#BA	В	6.8	16	1.1	6	3.0	158	_	142	63	*	1
F921C106#BA	В	10	16	1.6	6	2.0	194	-	174	77	*	1
					20 \	/olt						
F921D474#AA	Α	0.47	20	0.5	4	10.0	77	_	70	31	*	1
F921D474#PA	Р	0.47	20	0.5	8	20.0	39	_	35	15	*	1
F921D684#AA	Α	0.68	20	0.5	4	10.0	77	_	70	31	*	1
F921D105#AA	Α	1	20	0.5	4	10.0	77	_	70	31	*	1
F921D105#PA	Р	1	20	0.5	8	20.0	39	_	35	15	*	1
F921D155#AA	Α	1.5	20	0.5	6	7.4	90	-	81	36	*	1
					25 \	/olt						
F921E105#PA	Р	1	25	0.5	8	20.0	39	_	35	15	*	1
F921E225#AA	Α	2.2	25	0.6	8	10.0	77	_	70	31	±15	1
F921E225#BA	В	2.2	25	0.6	6	4.0	137	_	123	55	*	1
F921E475#BA	В	4.7	25	1.2	6	3.0	158	_	142	63	*	1
35 Volt												
F921V224#AA	Α	0.22	35	0.5	4	10.0	77	_	70	31	*	1
F921V334#AA	Α	0.33	35	0.5	4	10.0	77	_	70	31	*	1
F921V474#AA	Α	0.47	35	0.5	4	10.0	77	-	70	31	*	1
F921V105#AA	Α	1	35	0.5	6	10.0	77	-	70	31	*	1
F921V225#BA	В	2.2	35	0.8	6	4.0	137	-	123	55	±10	1

1: ΔC/C Marked ""

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

[#]: "M" for $\pm 20\%$ tolerance, "K" for $\pm 10\%$ tolerance. When you need K tolerance for the part numbers which have M tolerance only, please contact to your local AVX sales office.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

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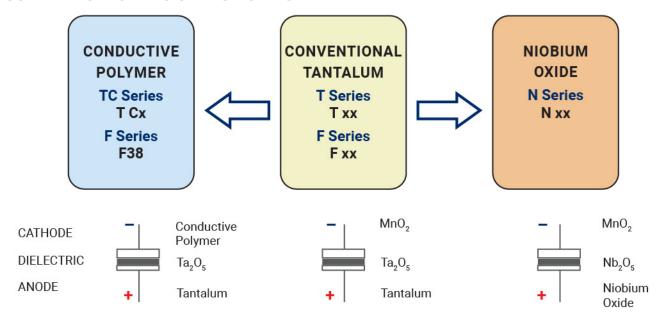
QUALIFICATION TABLE

TEOT	F92 series (Temperature range -55°C to +125°C)								
TEST	Condition								
	P Case	A, B Case							
Damp Heat	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied)								
(Steady State)	Capacitance ChangeRefer to page 28 (*1)	Refer to page 28 (*1)							
(Steady State)	Dissipation Factor150% or less than the initial specified value	Initial specified value or less							
	Leakage Current Initial specified value or less	Initial specified value or less							
	-55°C / +125°C, 30 minutes each, 5 cycles								
Temperature Cycles	Capacitance ChangeRefer to page 28 (*1)	Refer to page 28 (*1)							
remperature cycles	Dissipation Factor150% or less than the initial specified value								
	Leakage CurrentInitial specified value or less	Initial specified value or less							
	10 seconds reflow at 260°C, 5 seconds immersion at 260°C.								
Resistance to	Capacitance ChangeRefer to page 28 (*1)	Refer to page 28 (*1)							
Soldering Heat	Dissipation Factor150% or less than the initial specified value	Initial specified value or less							
	Leakage CurrentInitial 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 character								
Surge		Refer to page 28 (*1)							
	Dissipation Factor150% or less than the initial specified value								
	Leakage Current Initial specified value or less	Initial specified value or less							
	After 2000 hours' 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 in the								
Endurance	Capacitance Change Refer to page 28 (*1)	Refer to page 28 (*1)							
		Initial specified value or less							
		Initial specified value or less							
o	After applying the pressure load of 5N for 10±1 seconds horizontally to the								
Shear Test	side body which has no electrode and has been soldered beforehand on a	a substrate, there shall 5N (0.51kg·f) For 10±1 seconds							
	be found neither exfoliation nor its sign at the terminal electrode.								
	Keeping a capacitor surface-mounted on a substrate upside down and supp								
Terminal Strength	both of the opposite bottom points 45mm apart from the center of capacito	n, the pressure strength							
J	is applied with a specified jig at the center of substrate so that the substrate illustrated. Then, there shall be found no remarkable abnormality on the cap								
	linastrated. Then, there shall be found no remarkable abnormality on the cap	action terminals.							

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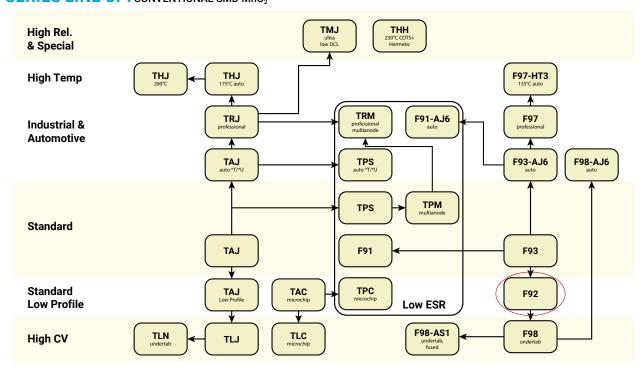
AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: CONVENTIONAL SMD MnO₂



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Kyocera AVX:

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        F920J106MPA
        F921C474MPA
        F920J156MPA
        F920J106MAA
        F921A335MPA
        F921E225MBA
        F920G476MBA

        F921C684MPA
        F921A156MAA
        F920G106MPA
        F920J225MPA
        F920J685MPA
        F921V105MAA
        F921A685MPA

        F920G107MBA
        F920J475MPA
        F921A106MPA
        F921A335MAA
        F921D155MAA
        F920G335MPA
        F921A105MPA

        F921C685MBA
        F921D474MAA
        F921V334MAA
        F920J476MBA
        F920J226MAA
        F921C105MPA
        F920J335MPA

        F920G475MPA
        F921A155MPA
        F921E105MPA
        F921C475MAA
        F920J336MBA
        F921D474MPA
        F921A475MPA

        F921D106MAA
        F920G226MAA
        F920J226MPA
        F921C106MBA
        F921V474MAA
        F921C225MPA

        F921D684MAA
        F921C225MAA
        F921V224MAA
        F920G156MPA
        F921D105MAA
        F921C335MAA
        F921A226MBA

        F921D105MPA
        F921C475MBA
        F921A475MAA
        F921B105KPA
        F921D474KPA
        F921D474KPA
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