CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

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

Released ratings (M tolerance only)

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

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 (Ω)	100kHz RMS Current (mA)				*1 ΔC/C (%)	MSL
							25°C	60°C	85°C	125°C		
4 Volt												
F920G335#PA	P	3.3	4	0.5	8	12.0	50	–	45	20	*	1
F920G475#PA	P	4.7	4	0.5	8	6.0	71	–	64	28	*	1
F920G685#PA	P	6.8	4	0.5	10	6.0	71	–	64	28	*	1
F920G106#PA	P	10	4	0.5	10	6.0	71	–	64	28	*	1
F920G156#PA	P	15	4	0.6	10	5.0	77	–	70	31	*	1
F920G226#AA	A	22	4	0.9	12	2.8	146	–	132	59	*	1
F920G476#BA	B	47	4	1.9	12	1.7	210	–	189	84	*	1
F920G107MAA	A	100	4	4.0	30	2.8	146	–	132	59	±15	1
F920G107#BA	B	100	4	4.0	18	1.3	240	–	216	96	*	1
6.3 Volt												
F920J225#PA	P	2.2	6.3	0.5	8	12.0	50	–	45	20	*	1
F920J335#PA	P	3.3	6.3	0.5	8	12.0	50	–	45	20	*	1
F920J475#PA	P	4.7	6.3	0.5	8	6.0	71	–	64	28	*	1
F920J685#PA	P	6.8	6.3	0.5	10	6.0	71	–	64	28	*	1
F920J106#AA	A	10	6.3	0.6	8	4.0	122	–	110	49	*	1
F920J106#PA	P	10	6.3	0.6	10	6.0	71	–	64	28	*	1
F920J156MPA	P	15	6.3	0.9	10	6.0	71	–	64	28	*	1
F920J226#AA	A	22	6.3	1.4	12	2.8	146	–	132	59	*	1
F920J226MPA	P	22	6.3	1.4	20	5.0	77	–	70	31	*	1
F920J336#BA	B	33	6.3	2.1	12	1.7	210	–	189	84	*	1
F920J476#BA	B	47	6.3	3.0	12	1.7	210	–	189	84	*	3
10 Volt												
F921A105#PA	P	1	10	0.5	8	12.0	50	–	45	20	*	1
F921A155#PA	P	1.5	10	0.5	8	12.0	50	–	45	20	*	1
F921A225#PA	P	2.2	10	0.5	8	12.0	50	–	45	20	*	1
F921A335#AA	A	3.3	10	0.5	6	7.0	93	–	83	37	*	1
F921A335#PA	P	3.3	10	0.5	8	12.0	50	–	45	20	*	1
F921A475#AA	A	4.7	10	0.5	6	4.0	122	–	110	49	*	1
F921A475#PA	P	4.7	10	0.5	8	6.0	71	–	64	28	*	1
F921A685#PA	P	6.8	10	0.7	8	6.0	71	–	64	28	*	1
F921A106#AA	A	10	10	1.0	8	4.0	122	–	110	49	*	1
F921A106MPA	P	10	10	1.0	14	6.0	71	–	64	28	*	1
F921A156#AA	A	15	10	1.5	8	4.0	122	–	110	49	*	1
F921A226#BA	B	22	10	2.2	8	1.9	199	–	179	79	*	3

RATINGS & PART NUMBER REFERENCE

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

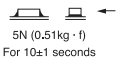
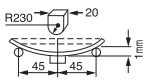
1: ΔC/C Marked ""

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

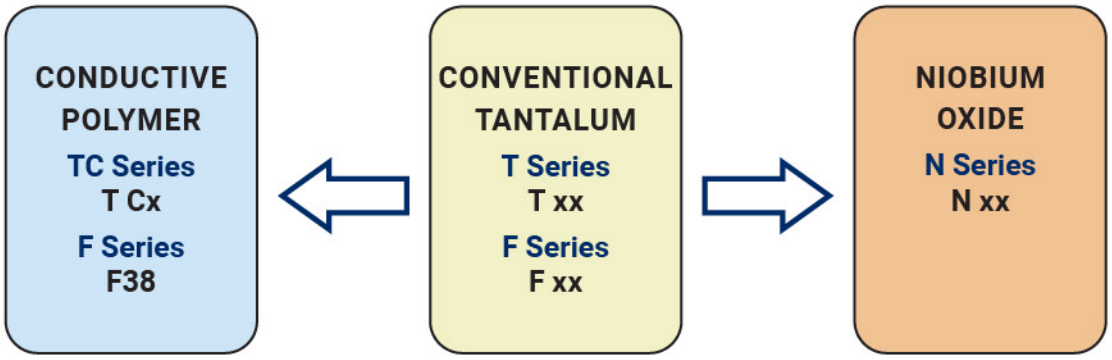
#: "M" for ±20% tolerance, "K" for ± 10% tolerance. When you need K tolerance for the part numbers which have M tolerance only, please contact to your local AVX sales office.

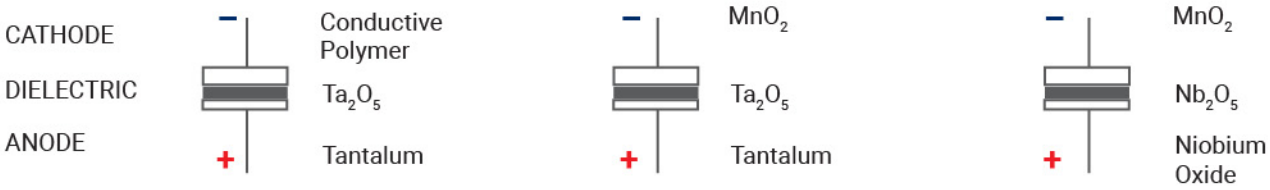
Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

QUALIFICATION TABLE

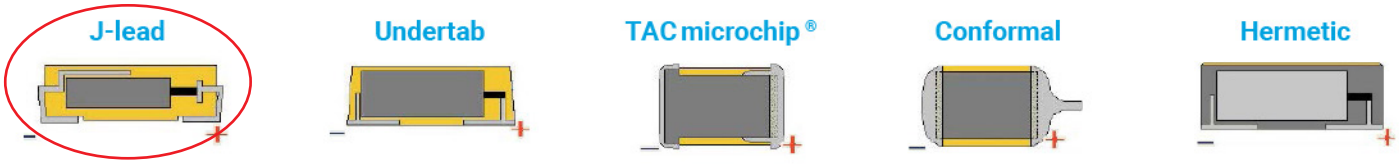
TEST	F92 series (Temperature range -55°C to +125°C) Condition	
	P Case	**A, B Case**
Damp Heat (Steady State)	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied)	
	Capacitance Change ..... Refer to page 28 (*1) Dissipation Factor..... 150% or less than the initial specified value Leakage Current ..... Initial specified value or less	Refer to page 28 (*1) Initial specified value or less Initial specified value or less
Temperature Cycles	-55°C / +125°C, 30 minutes each, 5 cycles	
	Capacitance Change ..... Refer to page 28 (*1) Dissipation Factor ..... 150% or less than the initial specified value Leakage Current ..... Initial specified value or less	Refer to page 28 (*1) Initial specified value or less Initial specified value or less
Resistance to Soldering Heat	10 seconds reflow at 260°C, 5 seconds immersion at 260°C.	
	Capacitance Change ..... Refer to page 28 (*1) Dissipation Factor ..... 150% or less than the initial specified value Leakage Current ..... Initial specified value or less	Refer to page 28 (*1) Initial specified value or less Initial specified value or less
Surge	After application of surge voltage in series with a 33Ω (For "P" case: 1kΩ) 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 in the table above.	
	Capacitance Change ..... Refer to page 28 (*1) Dissipation Factor ..... 150% or less than the initial specified value Leakage Current ..... Initial specified value or less	Refer to page 28 (*1) Initial specified value or less Initial specified value or less
Endurance	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 table above.	
	Capacitance Change ..... Refer to page 28 (*1) Dissipation Factor ..... 150% or less than the initial specified value Leakage Current ..... Initial specified value or less	Refer to page 28 (*1) Initial specified value or less 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. 	

AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP

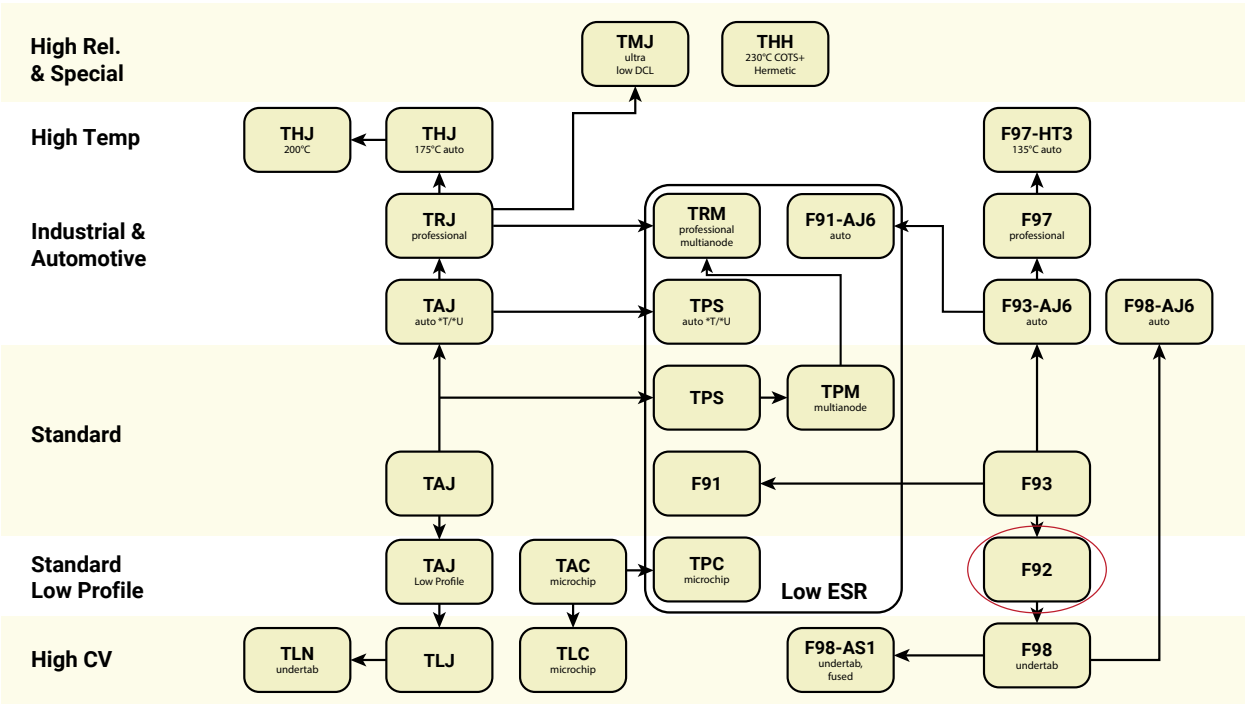




FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: CONVENTIONAL SMD MnO_2



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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 F921A106MAA F920G226MAA F920J226MPA F921A225MPA F921C106MBA F921V474MAA F921C225MPA F921D684MAA F921C225MAA F921V224MAA F920G156MPA F921D105MAA F921C335MAA F921A226MBA F921D105MPA F921C475MBA F921A475MAA F921E105KPA F921A475KAA F921D474KPA