

F92 Series

Resin-Molded Chip, Low Profile J-Lead



FEATURES

- Compliant to the RoHS3 directive 2015/863/EU
- SMD J-Lead
- Low Profile Case Sizes
- 100% Surge Current Tested

APPLICATIONS

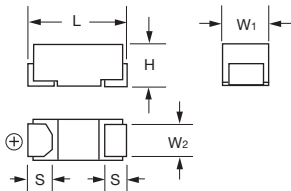
- Handheld Electronics
- USB Accessories



CASE DIMENSIONS:

millimeters (inches)

Code	EIA Code	EIA Metric	L	W ₁	W ₂	H	S
A	1206	3216-12	3.20 ± 0.20 (0.126 ± 0.008)	1.60 ± 0.20 (0.063 ± 0.008)	1.20 ± 0.10 (0.047 ± 0.004)	1.10 ± 0.10 (0.043 ± 0.004)	0.80 ± 0.20 (0.031 ± 0.008)
B	1311	3428-12	3.40 ± 0.20 (0.134 ± 0.008)	2.80 ± 0.20 (0.110 ± 0.008)	2.30 ± 0.10 (0.091 ± 0.004)	1.10 ± 0.10 (0.043 ± 0.004)	0.80 ± 0.20 (0.031 ± 0.008)
P	0805	2012-12	2.00 ± 0.20 (0.079 ± 0.008)	1.25 ± 0.10 (0.049 ± 0.004)	0.90 ± 0.10 (0.035 ± 0.004)	1.10 ± 0.10 (0.043 ± 0.004)	0.50 ± 0.20 (0.020 ± 0.008)



MARKING

P CASE

*Rated Capacitance Code



Rated Voltage Code

A CASE

Rated Capacitance Code



Rated Voltage Code

B CASE

Rated Capacitance (µF)



Rated Voltage (V)

4V	G	16V	C	35V	V
6.3V	J	20V	D		
10V	A	25V	E		

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

HOW TO ORDER

F92

Type

0J

Rated Voltage

106

Capacitance Code
pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)

M

Tolerance
K = ±10%
M = ±20%

P

Case Size
See table above

□

Packaging
See Tape & Reel Packaging Section

LZT

Specification Suffix
Rated temperature 60°C only

TECHNICAL SPECIFICATIONS

Category Temperature Range	-55 to +125°C	
Rated Temperature	+85°C	
Capacitance Tolerance	±20%, ±10% at 120Hz	
Dissipation Factor	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	P Case	A, B Case
	+20% Max. at +125°C	+15% Max. at +125°C
	+15% Max. at +85°C	+10% Max. at +85°C
	-15% Max. at -55°C	-10% Max. at -55°C

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CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage							*Cap Code
µF	Code	4V (0G)	6.3V (0J)	10V (1A)	16V (1C)	20V (1D)	25V (1E)	35V (1V)	
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



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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.

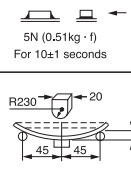
Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

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QUALIFICATION TABLE

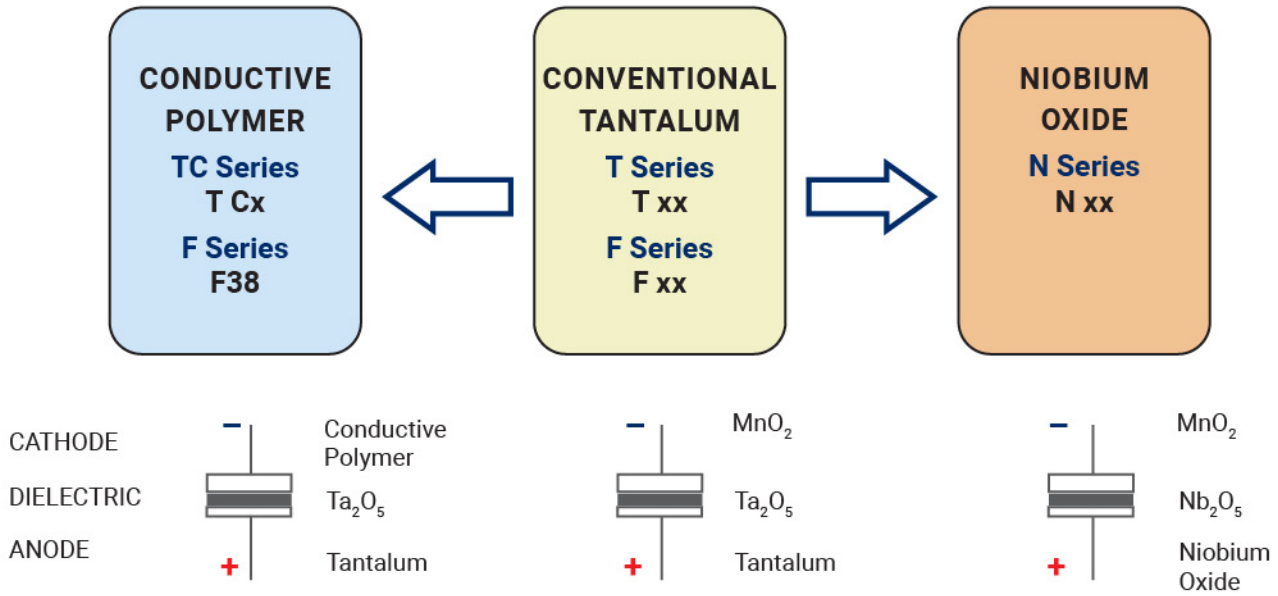
TEST	F92 series (Temperature range -55°C to +125°C)	
	Condition	
Damp Heat (Steady State)	P Case	A, B Case
	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied)	
	Capacitance Change Refer to page 28 (*1)	Refer to page 28 (*1)
Temperature Cycles	Dissipation Factor 150% or less than the initial specified 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	
Resistance to Soldering Heat	Capacitance Change Refer to page 28 (*1)	Refer to page 28 (*1)
	Dissipation Factor 150% or less than the initial specified value	Initial specified value or less
	Leakage Current Initial specified value or less	Initial specified value or less
Surge	10 seconds reflow at 260°C, 5 seconds immersion at 260°C.	
	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)	Refer to page 28 (*1)
Endurance	Dissipation Factor 150% or less than the initial specified value	Initial specified value or less
	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 table above.	
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.	



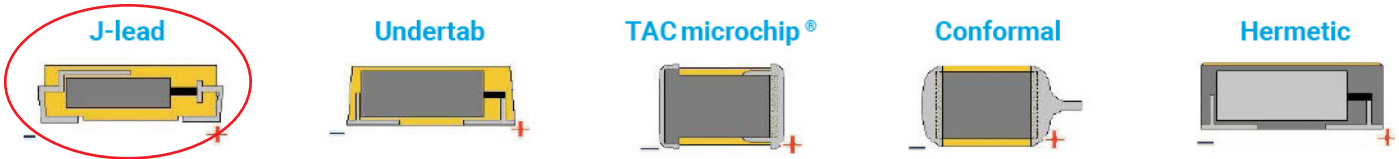
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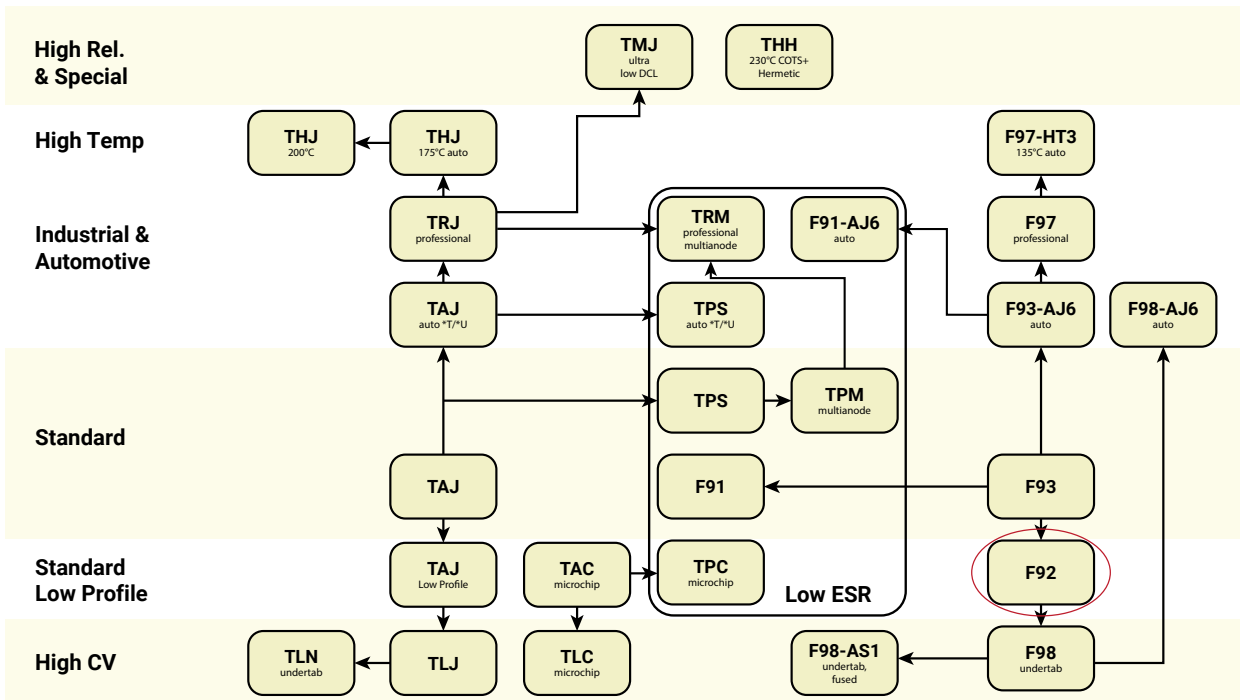
AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: CONVENTIONAL SMD MnO₂



单击下面可查看定价，库存，交付和生命周期等信息

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