



FEATURES

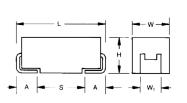
- · Compliant to the RoHS3 directive 2015/863/EU
- SMD J-Lead • •
- Low Profile Case Sizes • 100% Surge Current Tested
- **APPLICATIONS**

- Handheld Electronics
- USB Accessories

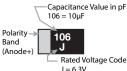
CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L ± 0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H Max.	W ₁ ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
Р	0805	2012-12	2.05 (0.081)	1.30 (0.051)	1.20 (0.047)	1.00 ± 0.10 (0.039 ± 0.004)	0.50 (0.020)	0.85 (0.033)
Α	1206	3216-12	3.20 (0.126)	1.60 (0.063)	1.20 (0.047)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
В	1210	3528-12	3.50 (0.138)	2.80 (0.110)	1.20 (0.047)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)

 W_1 dimension applies to the termination width for a dimensional area only









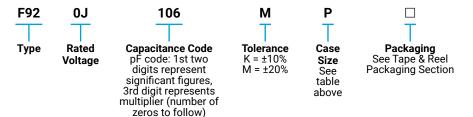
*Capacitance code of "P" case products are as shown below.

Polarity

(Anode+)

Band

HOW TO ORDER



Band

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 applicati	on of rated voltage, leakage current at 20°C is not					
	more than 0.01CV or 0.5µA, whichever is greater.						
	After 1 minute's applicat	ion of rated voltage, leakage current at 85°C is not					
	more than 0.1CV or 5µA,	whichever is greater.					
	After 1 minute's applicati	on 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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Rated Voltage Code A = 10V XXXXX -ID Code

226 = 22µF

Capacitance Value in pF

A, B CASE

▲ 226 A

AVX LOGO



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							A	J	
0.33	334							A	N	
0.47	474				Р	A/P		A	S	
0.68	684				Р	A			W	
1.0	105			Р	Р	A/P	Р	A	A	
1.5	155			Р		A			E	
2.2	225		Р	Р	A/P		A/B	В	J	
3.3	335	Р	Р	A/P	A				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)	A					е	
22	226	A	A/P ^(M)	В					J	
33	336		В						n	
47	476	В	В						S	
68	686								W	
100	107	А ^(М) /В							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

		Capacitance	Rated		DF @ 120Hz	ESR @		100kHz RMS	Current (mA)			
AVX Part No.	Case Size	(μF)	Voltage (V)	DCL (µA)	(%)	100kHz (Ω)	25°C	60°C	85°C	125°C	- *1 ΔC/C (%)	MSL
4 Volt												
F920G335#PA	P	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	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	В	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	В	100	4	4.0	18	1.3	240	-	216	96	*	1
5000 1005 #DA					6.3		50	1	45		*	
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 71		64	28	*	1
F920J685#PA F920J106#AA	<u> </u>	6.8 10	6.3 6.3	0.5	8	<u>6.0</u> 4.0	122	_	64 110	28 49	*	1
F920J106#AA	A	10	6.3	0.6	10	4.0 6.0	71	_	64	28	*	1
F920J156MPA	P	10	6.3	0.0	10	6.0	71	_	64	28	*	1
F920J226#AA	A	22	6.3	1.4	10	2.8	146	_	132	59	*	1
F920J226MPA	P	22	6.3	1.4	20	5.0	77	_	70	31	*	1
F920J220MPA	B	33	6.3	2.1	12	1.7	210		189	84	*	1
	B				. –		-	-		÷ .	*	•
F920J476#BA	В	47	6.3	3.0	12	1.7	210	-	189	84	*	3
		-			10 \			1			T . T	
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	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	Р	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	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	A	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	A	15	10	1.5	8	4.0	122	-	110	49	*	1
F921A226#BA	B	22	10	2.2	8	1.0	199	_	179	79	*	3
F921C474#PA	Р	0.47	16	0.5	8	20.0	39	-	35	15	*	1



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RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance	Rated	DCL (µA)	DF @ 120Hz	ESR @		100kHz RMS	Current (mA)		*1 ΔC/C (%)	MSL
AVX Part No.	Case Size	(μF)	Voltage (V)	DCL (µA)	(%)	100kHz (Ω)	25°C	60°C	85°C	125°C		IVISL
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	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 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	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	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 ""

ltem	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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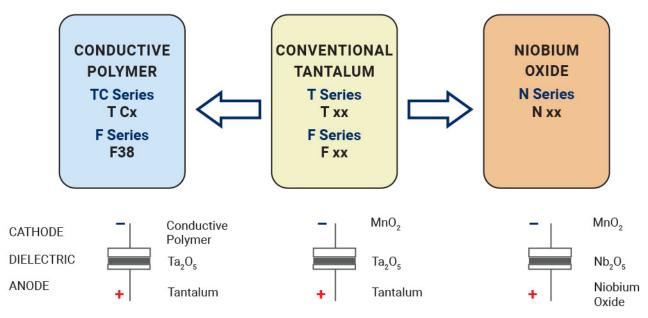
QUALIFICATION TABLE

TEST	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 Change Refer to the table above (*1)	Refer to the table above (*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 the table above (*1)	Refer to the table above (*1)							
Temperature Oycles	Dissipation Factor150% or less than the initial specified value								
	Leakage Current Initial specified value or less	Initial specified value or less							
	10 seconds reflow at 260°C, 5 seconds immersion at 260°C.								
Resistance to	Capacitance Change Refer to the table above (*1)	Refer to the table above (*1)							
Soldering Heat	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							
	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	Capacitance Change Refer to the table above (*1)	Refer to the table above (*1)							
	Dissipation Factor								
		Initial specified value or less							
	After 2000 hours' application of rated voltage in series with a 3Ω resistor at 8								
	resistor at 125°C, capacitors shall meet the characteristic requirements in the								
Endurance	Capacitance Change Refer to the table above (*1)	Refer to the table above (*1)							
	Dissipation Factor	Initial specified value or less							
	Leakage Current Initial specified value or less	Initial specified value or less							
a – .	After applying the pressure load of 5N for 10 ± 1 seconds horizontally to the theorem of the pressure load of 5N for 10 ± 1 seconds horizontally to the press								
Shear Test	side body which has no electrode and has been soldered beforehand on	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 supple to the sentence of a supple to the sentenc								
Terminal Strength	both of the opposite bottom points 45mm apart from the center of capacito	, and proceed of our official and the second s							
.	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								
	indicated. Then, there shall be round no remarkable abnormality of the cap								





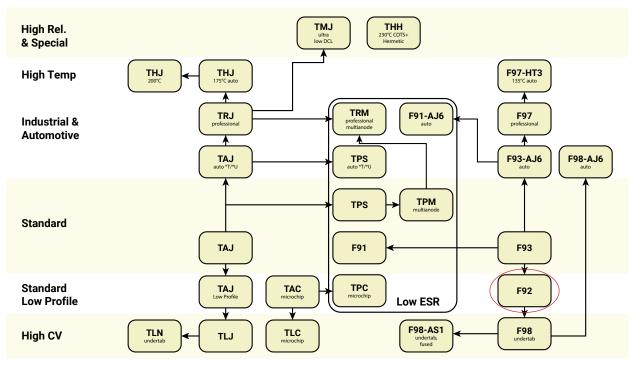
AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: CONVENTIONAL SMD MnO₂





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