F98 Series Resin-Molded Chip, High CV Undertab





FEATURES

- · Compliant to the RoHS3 directive 2015/863/EU
- SMD Face Down Design
- Small and Low Profile
- 100% Surge Current Tested

APPLICATIONS

- Smartphone
- Mobile Phone
- · Wireless Module
- Hearing Aid

CASE DIMENSIONS:

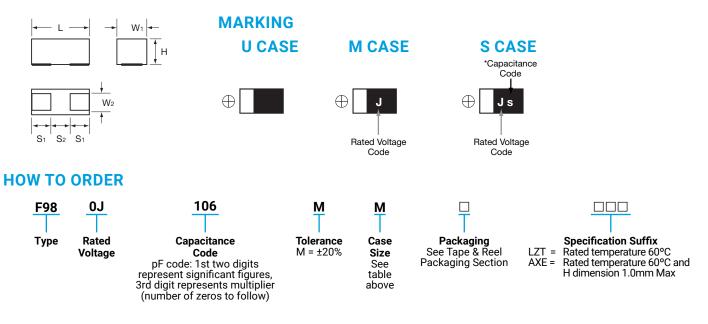


millimeters (inches)



Code	EIA Code	EIA Metric	L	W ₁	W ₂	н	S ₁	S ₂
м	0603	1608-09	1.60 ^{+0.20} -0.10 (0.063 ^{+0.008} -0.004)	0.85 ^{+0.20} -0.10 (0.033 ^{+0.008} -0.004)	0.65±0.10 (0.026±0.004)	0.80±0.10*3 (0.031±0.004)	0.50±0.10 (0.020±0.004)	0.60±0.10 (0.024±0.004)
s	0805	2012-09	2.00 ^{+0.20} -0.10 (0.079 ^{+0.008} _{-0.004})	$^{+0.20}_{-0.10}_{(0.049^{+0.008}_{-0.004})}$	0.90±0.10 (0.035±0.004)	0.80±0.10 (0.031±0.004)	0.50±0.10 (0.020±0.004)	1.00±0.10 (0.039±0.004)
U	0402	1106-06	1.10±0.05 (0.043±0.002)	0.60±0.05 (0.024±0.002)	0.35±0.05 (0.014±0.002)	0.55±0.05 (0.022±0.002)	0.30±0.05 (0.012±0.002)	0.50±0.05 (0.020±0.002)

*3 F980J107MMAAXE: 1.0mm Max.



TECHNICAL SPECIFICATIONS

Category Temperature Range:	-55 to +125°C						
Rated Temperature:	+85°C or +60°C						
Capacitance Tolerance:	±20% at 120Hz						
Dissipation Factor:	Refer to next page						
ESR 100kHz:	Refer to next page						
	Refer to next page						
	Provided that:						
Leakage Current:	After 5 minute's application of rated voltage, leakage current at 85°C or +60°C						
Leakage Current.	10 times or less than 20°C specified value.						
	After 5 minute's application of rated voltage, leakage current at 125°C						
	12.5 times or less than 20°C specified value.						
Termination Finish:	M, S case: Gold Plating (standard), U case: Sn-3.5Ag Plating (standard)						



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CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage									
μF	Code	2.5 (0e)	4V (0G)	6.3V (0J)	10V (1A)	16V (1C)	20V (1D)	25V (1E)	35V (1V)	*Cap Code	
0.47	474					U				N	
1.0	105					М	M	M	S	A	
2.2	225				M/U	М				J	
4.7	475		U	M/U	M/U**	М				S	
10	106		U	M/U**	M	S				а	
15	156		U							е	
22	226		M/U**	M	M**/S					J	
33	336		М	M	M**/S					n	
47	476	М	М	M/S	S					S	
68	686		M/S							w	
100	107		M/S	M*4/S						A	
220	227		S							J	

Released ratings

*4 (AXE) Rated temperature 60°C and H dimension 1.0mm Max. Please contact AVX when you need detail spec.

** (LZT) Rated temperature 60°C. 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	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	100kHz RMS Current (mA)				*1	MC
Part No.							25°C	60°C	85°C	125°C	ΔC/C (%)	MSL
		-				Volt			-			
F980E476MMA	M	47	2.5	1.2	30	4	79	-	71	32	±30	3
						/olt						
F980G475MUA	U	4.7	4	0.5	20	20	27	-	25	11	±30	3
F980G106MUA	U	10	4	0.8	25	20	27	-	25	11	±30	3
F980G156MUA	U	15	4	9.0	40	25	24	-	22	10	±30	3
F980G226MMA	M	22	4	0.9	15	7.5	58	-	52	23	±30	3
F980G226MUALZT	U	22	4	25.0	40	20	27	25	-	11	±30	3
F980G336MMA	M	33	4	1.3	30	4	79	-	71	32	±30	3
F980G476MMA	M	47	4	1.9	40	8	56	-	50	22	±30	3
F980G686MMA	М	68	4	27.2	50	10	50	-	45	20	±30	3
F980G686MSA	S	68	4	2.7	30	4	106	-	95	42	±30	3
F980G107MMA	M	100	4	80.0	60	10	50	-	45	20	±30	3
F980G107MSA	S	100	4	4.0	35	4	106	-	95	42	±30	3
F980G227MSA	S	220	4	132	80	5	95	-	85	38	±30	3
			· · ·			Volt						
F980J475MMA	M	4.7	6.3	0.5	20	7.5	58	-	52	23	±30	3
F980J475MUA	U	4.7	6.3	0.6	20	20	27	-	25	11	±30	3
F980J106MMA	M	10	6.3	0.6	8	6	65	-	58	26	±30	3
F980J106MUALZT	U	10	6.3	6.3	30	30	22	20	-	9	±30	3
F980J226MMA	M	22	6.3	1.4	20	6	65		58	26	±30	3
F980J336MMA	M	33	6.3	4.2	35	8	56	-	50	20	±30 ±30	3
F980J476MMA	M	47	6.3	29.6	45	10	50	-	45	20	±30	3
		47				-			-			-
F980J476MSA	S		6.3	3.0	25	6	87	-	78	35	±30	3
F980J107MMAAXE	M	100	6.3	126	80	10	50	45	-	20	±30	3
F980J107MSA	S	100	6.3	63.0	50	8	75	-	68	30	±30	3
						Volt						
F981A225MMA	M	2.2	10	0.5	6	7.5	58	-	52	23	±30	3
F981A225MUA	U	2.2	10	0.5	15	15	32	-	28	13	±30	3
F981A475MMA	М	4.7	10	0.5	6	6	65	-	58	26	±30	3
F981A475MUALZT	U	4.7	10	4.7	25	25	24	22	-	10	±30	3
F981A106MMA	М	10	10	1.0	20	7.5	58	-	52	23	±30	3
981A226MMALZT	М	22	10	11.0	30	8	56	50	-	22	±30	3
F981A226MSA	S	22	10	2.2	20	4	106	-	95	42	±30	3
F981A336MMALZT	M	33	10	33.0	45	8	56	50	-	22	±30	3
F981A336MSA	S	33	10	3.3	30	6	87	-	78	35	±30	3
F981A476MSA	S	47	10	9.4	35	5	95	-	85	38	±30	3
					16	Volt						
F981C474MUA	U	0.47	16	0.5	6	25	24	-	22	10	±20	3
F981C105MMA	М	1	16	0.5	6	10	50	-	45	20	±30	3
F981C225MMA	M	2.2	16	0.5	6	10	50	-	45	20	±30	3
F981C475MMA	М	4.7	16	0.8	12	12	46	-	41	18	±30	3
F981C106MSA	S	10	16	1.6	18	4	106	-	95	42	±30	3
					20	Volt						
F981D105MMA	М	1	20	0.5	6	10	50	-	45	20	±30	3
			1			Volt						
F981E105MMA	М	1	25	0.5	8	10	50	-	45	20	±30	3
			20	0.0		Volt						0
			35	0.7	20		75			30		3

*2: Leakage Current

After 5 minute's application of rated voltage, leakage current at 20°C.



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

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QUALIFICATION TABLE

TEST	F98 series (Temperature range -55°C to +125°C)
1631	Condition
Damp Heat (Steady State)	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied) Capacitance Change
Temperature Cycles	-55°C / +125°C, 30 minutes each, 5 cycles Capacitance Change
Resistance to Soldering Heat	10 seconds reflow at 260°C, 5 seconds immersion at 260°C. Capacitance Change
Surge	After application of surge in series with a 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. (Not applied to LZT and AXE.) Capacitance Change
Endurance	After 1000 hours' application of rated voltage in series with a 3Ω resistor at 85°C or +60°C, capacitors shall meet the characteristic requirements in the table above. Capacitance Change
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. $\underbrace{\Box}_{\text{5N}(0.51\text{kg}\cdot\text{1})}_{\text{For 10±1 seconds}}$
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.

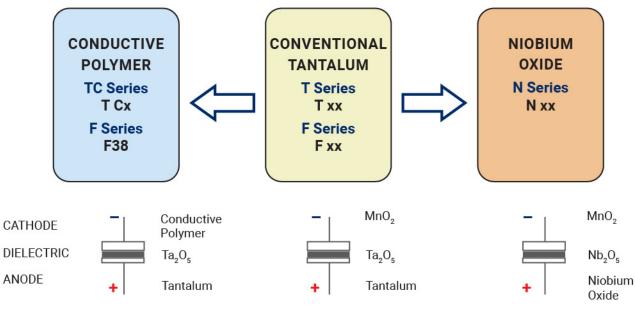


F98 Series

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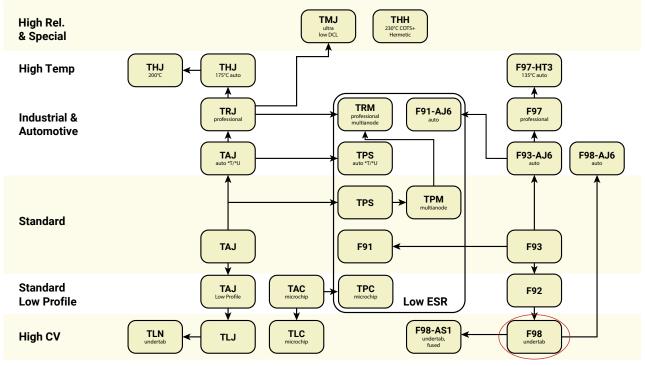
AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP : CONVENTIONAL SMD MnO₂





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