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

LEAD-FREE COMPATIBLE COMPONENT



APPLICATIONS

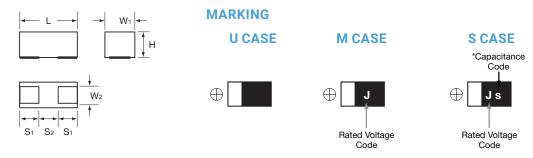
- Smartphone
- Mobile Phone
- Wireless Module
- Hearing Aid

CASE DIMENSIONS:

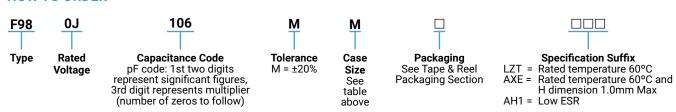
millimeters (inches)

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})	1.25 ^{+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.



HOW TO ORDER



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 Plating (standard)					

Resin-Molded Chip, High CV Undertab



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	М	М	S	Α	
2.2	225				M/U	М				J	
4.7	475		U	M/U	M/U**	М				S	
10	106		U	M/U**	М	S				a	
15	156		U							е	
22	226		M/U**	M	M**/S					J	
33	336		M	M	M**/S					n	
47	476	M	M	M/S/S(AH1)	S					S	
68	686		M/S							W	
100	107		M/M(AH1)/S	M*4/S						Α	
150	157	M*									
220	227	S*	S							J	

Released ratings

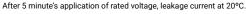
Please contact to your local KYOCERA AVX sales office when these series are being designed in your application.

RATINGS & PART NUMBER REFERENCE

Part Number	Case	Capacitance	Rated Voltage	DCL	DF@ 120Hz	ESR@ 100kHz	100kHz RMS Current (mA)				*1 ΔC/C	MSL
Part Number	Size	(μF)	(V)	(μ A)	(%)	(Ω)	25°C	60°C	85°C	125°C	(%)	IVIOL
			(-,			Volt					(-0)	
F980E476MMA	М	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	М	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	М	33	4	1.3	30	4	79	-	71	32	±30	3
F980G476MMA	М	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	М	100	4	80.0	60	10	50	_	45	20	±30	3
F980G107MMAAH1	M	100	4	80.0	60	2	112	-	101	45	±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		<u> </u>				
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 F980J106MUALZT	M U	10 10	6.3	0.6 6.3	8 30	6 30	65 22	20	58 -	26 9	±30 ±30	3
F980J106MUALZ1	M	22	6.3	1.4	20	6	65		58	26	±30	3
F980J336MMA	M	33	6.3	4.2	35	8	56		50	22	±30	3
F980J476MMA	M	47	6.3	29.6	45	10	50		45	20	±30	3
F980J476MSA	S	47	6.3	3.0	25	6	87	_	78	35	±30	3
F980J476MSAAH1	S	47	6.3	3.0	25	1	212	_	191	85	±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	М	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
F981A226MMALZT	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	М	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
						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	М	2.2	16	0.5	6	10	50	-	45	20	±30	3
F981C475MMA	M	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
F004D467:			0-			Volt				0.5		
F981D105MMA	М	11	20	0.5	6	10	50	_	45	20	±30	3
500454051414: 1			0.5			Volt			45	1 00		
F981E105MMA	М	11	25	0.5	8	10	50		45	20	±30	3
E004)/45E::5:						Volt				0.5		
F981V105MSA *2: Leakage Current	S	1	35	0.7	20	8	75		68 ensitivity Leve	30	±30	3

^{*2:} Leakage Current

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





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

^{** (}LZT) Rated temperature 60°C. Please contact KYOCERA AVX when you need detail spec.

^{*}Codes under development - subject to change.



Resin-Molded Chip, High CV Undertab

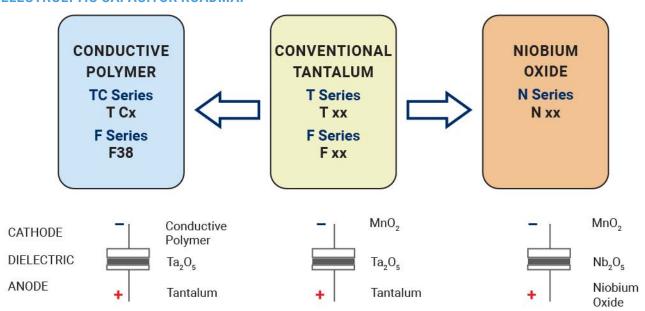
QUALIFICATION TABLE

TEST	F98 series (Temperature range -55°C to +125°C)								
IEST	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 $1k\Omega$ 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.									
Terminal Strength Keeping a capacitor surface-mounted on a substrate upside down and supporting the substrate aboth 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.									

Resin-Molded Chip, High CV Undertab



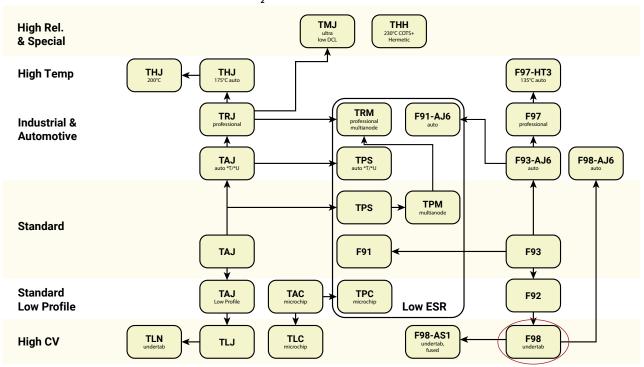
SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: CONVENTIONAL SMD MnO,



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera AVX:

F980G107MMAAH1 F980J476MSAAH1

KYOCERA AVX:

F980J106MMA F981A225MMA F980E476MMA F981C225MMA F981A475MMA F981A226MSA F980J475MMA F981C106MSA F980J476MMA F980J106MUA F980G475MUA F980J475MUA F981E105MMA F980G686MSA F980G686MMA F981A476MSA F980J476MSA F981A225MUA F981A106MMA F981A336MSA F981V105MSA F980J107MMAAXE F980G226MUALZT F980G156MUA F981C474MUA F980G107MMA F981A476MSAAS1