F98 Series

Resin-Molded Chip, High CV Frameless®



FRANCELESS TM



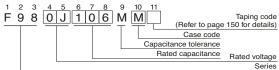




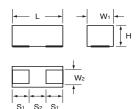
• Compliant to the RoHS directive (2002/95/EC).



- Applications
 - Smartphone
- Wireless module
- Mobile phone
 ◆ Hearing aid
- ■Type numbering system (Example : 6.3V 10μ F)

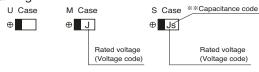


■Drawing



						(11111)	
Case Code	L	W ₁	W ₂	Н	S ₁	S ₂	
U			0.35 ± 0.05				
М	1.6 +0.2	0.85 +0.2	0.65 ± 0.1	0.8 ± 0.1	0.5 ± 0.1	0.6 ± 0.1	
S	2.0 +0.2	1.25 +0.2	0.9 ± 0.1	0.8 ± 0.1	0.5 ± 0.1	1.0 ± 0.1	

Marking



■Standard Ratings

	_ V	4	6.3	10	16	20	25	* *
Cap.(µF)	Code	0G	0J	1A	1C	1D	1E	Capacitance code
1	105				М	М	М	_
2.2	225			U·M	М			_
4.7	475	U	U·M	(U) · M	М			_
10	106	U	(U) · M	М	S			а
22	226	М	М	(M) · S				J
33	336	М	М	(M) · S				n
47	476	М	M·S	S				s
68	686	M·S						w
100	107	M·S	S					Α
220	227	S						J

() The series in parentheses are being developed. Please contact to your local AVX sales office when these series are being designed in your application.

We can consider the type of compliance to AEC-Q200. Please contact to your local AVX sales office when these series are being designed in your application.

■Specifications

Item	Performance Characteristics				
Category Temperature Range	-55 to +125°C (Rated temperature : +85°C)				
Capacitance Tolerance	±20% (at 120Hz)				
Dissipation Factor	Refer to the table below				
ESR	Refer to the table below				
Leakage Current	Refer to the table below Provided that After 5 minute's application of rated voltage, leakage current at 85°C, 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.				
Damp Heat (Steady State)	At 40°C, 90 to 95% R.H., For 500hours (No voltage applied) Capacitance Change · · · Refer to the table below (* 1) Dissipation Factor · · · · 150% or less of initial specified value Leakage Current · · · · · 200% or less of initial specified value				
Temperature Cycles	At -55°C / +125°C, For 30 minutes each, 5 cycles Capacitance Change · · · Refer to the table below (* 1) Dissipation Factor · · · · 150% or less than the initial specified value Leakage Current · · · · · Initial specified value or less				
Resistance to Soldering Heat	seconds reflow at 260°C, 5 seconds immersion at 260°C Capacitance Change · · · Refer to the table below (* 1) Leakage Current · · · · · Initial specified value or less Leakage Current · · · · · Initial specified value or less				
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 listed below. Capacitance Change \cdots Refer to the table below (* 1) Dissipation Factor \cdots 150% or less than the initial specified value Leakage Current \cdots 200% or less than the initial specified value				
Endurance	After 1000 hours' application of rated voltage in series with a 3\Omega resistor at 65°C, capacitors shall meet the characteristic requirements table below Capacitance Change Refer to the table below (* 1) Dissipation Factor 150% or less than the initial specified value Leakage Current 200% or less than the initial specified value				
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 the substrate so that substrate may bend by 1mm as illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals.				

Rated Volt	Rated Capacitance (µF)	Case code	Part Number	*2 Leakage Current (µA)	Disspation Factor (% @ 120Hz)	ESR (Ω@100kHz)	*1 <u>AC/C</u> (%)
4V	4.7 10 22 33 47 68 68 100 100 220		F980G475MUA F980G106MUA F980G226MMA F980G336MMA F980G486MMA F980G686MSA F980G107MMA F980G107MMA F980G107MSA F980G227MSA	0.5 0.8 0.9 1.3 1.9 27.2 2.7 80.0 4.0	20 25 15 30 40 50 30 60 35 80	20 20 7.5 4 8 10 4 10 4	±30 ±30 ±30 ±30 ±30 ±30 ±30 ±30
6.3V	4.7 4.7 10 22 33 47 47	U M M M M M S S	F980J475MUA F980J105MMA F980J106MMA F980J226MMA F980J336MMA F980J476MMA F980J476MSA F980J107MSA	0.6 0.5 0.6 1.4 4.2 29.6 3.0 63.0	20 20 8 20 35 45 25 50	20 7.5 6 6 8 10 6	±30 ±30 ±30 ±30 ±30 ±30 ±30
10V	2.2 2.2 4.7 10 22 33 47		F981A225MUA F981A225MMA F981A475MMA F981A106MMA F981A226MSA F981A336MSA F981A476MSA	0.5 0.5 0.5 1.0 2.2 3.3 9.4	15 6 6 20 20 30 35	15 7.5 6 7.5 4 6 5	±30 ±30 ±30 ±30 ±20 ±30
16V	1 2.2 4.7 10	M M M S	F981C105MMA F981C225MMA F981C475MMA F981C106MSA	0.5 0.5 0.8 1.6	6 6 12 18	10 10 12 4	±30 ±30 ±30 ±20
20V	1	М	F981D105MMA	0.5	6	10	±30
25V	1	М	F981E105MMA	0.5	8	10	±30

^{*2 :} Leakage Current

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



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293D155X9020A2DE3 298W476X06R3M2T 298W107X0004M2T CWR29NC225KDFC CWR29HH155KCBB CWR29HC106KCDC
293D476X9035E2TE3 T493A225K020BB6320WAFL CWR29KC226JCGC T495D156K025ATE2757005 T513X227K016BH4585
CWR29DC337KCHC T97H107M040HSA 595D686X9010B2T T25D337M016CSZ 591D156X9025R8T15H 594D686X9016C2T
595D106X0025C8T CWR29DC226KBDA\TR CWR29FC106KBBA\TR CWR29FC686KBGA\TR CWR29FC157KBXA\TR
CWR29HC105KBAA\TR CA55-B6R3M107T CA55-E025M107T TC212B475K035Y TAZH685K035LBSB0824 TAZG107K010LBSB0800
TAZH475K050LBSB0H23 TAZH156K025CBSZ0824 TBJD156K025CBSZ0824