

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
0.33	334						U**			Ν
1.0	105					М	М	М	S	A
2.2	225				M/U	М				J
4.7	475		U	M/U	M/U**	М				S
10	106		U	M/U**	М	S				а
15	156		U							е
22	226		M/U**	М	M**/S					J
33	336		М	М	M**/S					n
47	476	М	М	M*4/S	S					S
68	686		M/S							W
100	107		M/S	M*4/S						A
220	227		S							J

Available Ratings

*Codes under development - subject to change

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

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RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	*2 DCL (μA)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	*1 ∆C/C (%)
2.5 Volt							
F980E476MMA	М	47	2.5	1.2	30	4	±30
4 Volt							
F980G475MUA	U	4.7	4	0.5	20	20	±30
F980G106MUA	U	10	4	0.8	25	20	±30
F980G156MUA	U	<u> </u>	4	9.0	40	25	±30
F980G226MMA	M	22	4	0.9	15	7.5	±30
F980G226MUALZT	U	22	4	25.0	40	20	±30
F980G336MMA	Μ	33	4	1.3	30	4	±30
F980G476MMA	М	47	4	1.9	40	8	±30
F980G686MMA	М	68	4	27.2	50	10	±30
F980G686MSA	S	68	4	2.7	30	4	±30
F980G107MMA	М	100	4	80.0	60	10	±30
F980G107MSA	S	100	4	4.0	35	4	±30
F980G227MSA	S	220	4	132	80	5	±30
6.3 Volt							
F980J475MMA	М	4.7	6.3	0.5	20	7.5	±30
F980J475MUA	U	4.7	6.3	0.6	20	20	±30
F980J106MMA	М	10	6.3	0.6	8	6	±30
F980J106MUALZT	U	10	6.3	6.3	30	30	±30
F980J226MMA	М	22	6.3	1.4	20	6	±30
F980J336MMA	М	33	6.3	4.2	35	8	±30
F980J476MMA	М	47	6.3	29.6	45	10	±30
F980J476MSA	S	47	6.3	3.0	25	6	±30
F980J107MMAAXE	М	100	6.3	126	80	10	±30
F980J107MSA	S	100	6.3	63.0	50	8	±30

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.

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	*2 DCL (μA)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	*1 ∆C/C (%)
10 Volt							
F981A225MMA	М	2.2	10	0.5	6	7.5	±30
F981A225MUA	U	2.2	10	0.5	15	15	±30
F981A475MMA	Μ	4.7	10	0.5	6	6	±30
F981A475MUALZT	U	4.7	10	4.7	25	25	±30
F981A106MMA	Μ	10	10	1.0	20	7.5	±30
F981A226MMALZT	Μ	22	10	11.0	30	8	±30
F981A226MSA	S	22	10	2.2	20	4	±30
F981A336MMALZT	Μ	33	10	33.0	45	8	±30
F981A336MSA	S	33	10	3.3	30	6	±30
F981A476MSA	S	47	10	9.4	35	5	±30
		16	6 Volt				
F981C105MMA	М	1	16	0.5	6	10	±30
F981C225MMA	Μ	2.2	16	0.5	6	10	±30
F981C475MMA	Μ	4.7	16	0.8	12	12	±30
F981C106MSA	S	10	16	1.6	18	4	±30
20 Volt							
F981D105MMA	М	1	20	0.5	6	10	±30
25 Volt							
F981E105MMA	М	1	25	0.5	8	10	±30
35 Volt							
F981V105MSA	S	1	35	0.7	20	8	±30

*2: Leakage Current

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



F98 Series

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QUALIFICATION TABLE

TEST	F98 series (Temperature range -55°C to +125°C)
1631	Condition
	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied)
Damp Heat	Capacitance Change
(Steady State)	Dissipation Factor 150% or less of initial specified value
	Leakage Current
	-55°C / +125°C, 30 minutes each, 5 cycles
Temperature Cycles	Capacitance Change
Temperature Oyoles	Dissipation Factor
	Leakage Current
	10 seconds reflow at 260°C, 5 seconds immersion at 260°C.
Resistance to	Capacitance Change
Soldering Heat	Dissipation Factor Initial specified value or less
	Leakage Current Initial specified value or less
	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.
Surge	Capacitance Change
	Dissipation Factor
	Leakage Current
	After 1000 hours' application of rated voltage in series with a 3Ω resistor at 85°C,
	capacitors shall meet the characteristic requirements in the table above.
Endurance	Capacitance Change
	Dissipation Factor 150% or less of initial specified value
	Leakage Current
	After applying the pressure load of 5N for 10±1 seconds horizontally to the center of capacitor side body
Shear Test	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.
	Keeping a capacitor surface-mounted on a substrate upside down and supporting the substrate at
Terminal Strength	both of the opposite bottom points 45mm apart from the center of capacitor, the pressure strength is $\frac{1230}{3}$
lerinna Sueligui	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.

Mouser Electronics

Authorized Distributor

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Kyocera AVX:

 F981C105MMA
 F980J336MMA
 F980G106MUA
 F981C475MMA
 F980G336MMA
 F980J226MMA
 F980G107MSA

 F980G476MMA
 F981D105MMA
 F980G226MMA
 F981A336MMALZT
 F981A226MMALZT
 F980J106MUALZT

 F981A475MUALZT
 F980G227MSA
 F980J107MSA
 F980J107MSA