F98-AJ6 Series

Resin-Molded Chip, High CV Facedown - Automotive Range





FEATURES

- Compliant to the RoHS2 directive 2011/65/EU
- SMD facedown design
- Small and Low profile
- Compliant to AEC-Q200



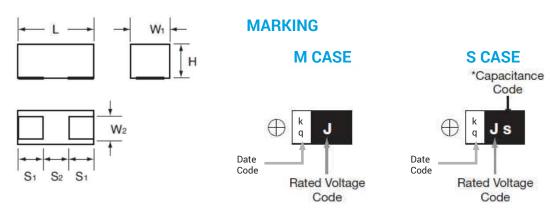


APPLICATIONS

- Infotainment
- Cabin electronics
- Cameras
- Digital millers

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)	1.0 Max (0.039 Max)	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)



HOW TO ORDER



TECHNICAL SPECIFICATIONS

Category Temperature Range:	-55 to +125°C
Rated Temperature:	+85°C
Capacitance Tolerance:	±20% at 120Hz
Dissipation Factor:	Refer to Ratings & Part Number Reference
ESR 100kHz:	Refer to Ratings & Part Number Reference
Leakage Current:	Refer to Ratings & Part Number Reference at 20°C after application of rated voltage for 5 minutes 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.
Termination Finish:	Gold Plating (standard)

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CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capa	acitance		Cap Code		
μF	Code	6.3 (0J)	10V (1A)	16V (1C)	Code
4.7	475		М	М	S
10	106		М	S	а
22	226	M*	S*		J
33	336	M*			n
47	476	S*			s

Released Ratings

RATINGS & PART NUMBER REFERENCE

AVX Part Number	Case		Rated DCL Voltage Max (V) (μΑ)	DF Max	ESR Max	100kHz RMS Current (mA)			⊿c/c	MSL	
AVATURENTALISE	Size				(%@120Hz)	(Ω@100kHz)	25°C	85°C	125°C		52
	10 Volt										
F981A475MMAAJ6	М	4.7	10	0.5	12	6	65	58	26	±30	3
F981A106MMAAJ6	М	10	10	1.0	20	7.5	58	52	23	±30	3
	16 Volt										
F981C475MMAAJ6	М	4.7	16	0.8	12	12	46	41	18	±30	3
F981C106MSAAJ6	S	10	16	1.6	18	4	106	95	42	±30	3

QUALIFICATION TABLE

Test	F98-AJ6 series (Temperature range -55°C to +125°C)
rest	Condition
Damp Heat (Steady State)	At 40°C, 90% R.H., 500 hours (No voltage applied) Capacitance ChangeRefer to Ratings & Part Number Reference Dissipation Factor150% or less of initial specified value Leakage Current200% or less of initial specified value
Load Humidity	After 1000 hour's application of rated voltage in series with a 33Ω resistor at 85°C, 85% R.H., capacitors meet the characteristics requirements table below. Capacitance ChangeRefer to Ratings & Part Number Reference Dissipation Factor150% or less of initial specified value Leakage Current10 times or less of initial specified value
Temperature Cycles	At -55°C / +125°C, 30 minutes each, 1000 cycles Capacitance ChangeRefer to Ratings & Part Number Reference Dissipation Factor150% or less initial specified value Leakage Current5 times or less of initial specified value
Resistance to Soldering Heat	10 seconds reflow at 260°C, 5 seconds immersion at 260°C Capacitance ChangeRefer to Ratings & Part Number Reference Dissipation FactorInitial specified value or less Leakage CurrentInitial specified value or less
Surge	After application of surge voltage 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. Capacitance Change
Endurance	After 1000 hours' application of rated voltage in series with a 3Ω resistor at 85° C, or derated voltage in series with a 3Ω resistor at 125° C, capacitors shall meet the characteristic requirements in the table above. Capacitance Change
Shear Test	After applying the pressure load of 5N for 60+1/-0 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 which has no electrode and has been soldered beforehand on a substrate, there shall be found neither strong for 60+1/-0 seconds for 60+1
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 he substrate so that the substrate may bend by 1mm as illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals

NOTICE: DESIGN, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

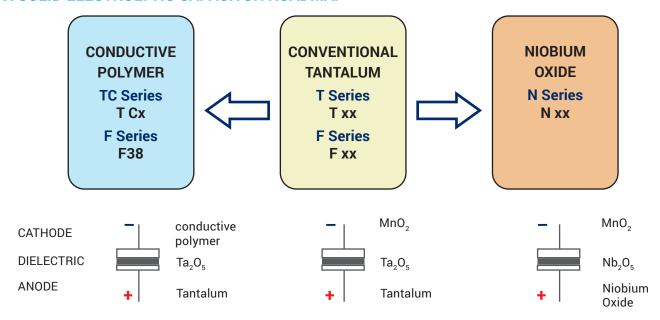
^{*} Codes under development - subject to change

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AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: CONVENTIONAL SMD MnO₂

