



**THE DATASHEET OF  
F981A226MSAAS1**



# F98-AS1 Series



## Fused Face-Down, High CV



### FEATURES

- Compliant to the RoHS2 directive 2011/65/EU

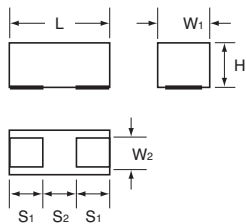
### APPLICATIONS

- Industrial equipment
- Smartphone
- Medical equipment
- Automotive electronics
- Portable game



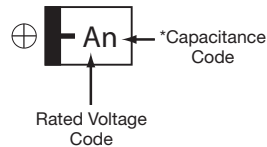
### CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L	W <sub>1</sub>	W <sub>2</sub>	H	S <sub>1</sub>	S <sub>2</sub>
S	0805	2012-09	2.00 <sup>+0.20</sup> <sub>-0.10</sub> (0.079 <sup>+0.008</sup> <sub>-0.004</sub> )	1.25 <sup>+0.20</sup> <sub>-0.10</sub> (0.049 <sup>+0.008</sup> <sub>-0.004</sub> )	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)



### MARKING

#### S CASE



### HOW TO ORDER

<b>F98</b>	<b>1A</b>	<b>336</b>	<b>M</b>	<b>S</b>		<b>AS1</b>				
Type	Rated Voltage	Capacitance Code	Tolerance	Case Size	Packaging	Fuse Series Code				
		pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	M = ±20%	See table above	<table border="1"> <tr> <td>Reel Dia (φ180)</td> <td>Tape Width (mm)</td> </tr> <tr> <td>A</td> <td>8</td> </tr> </table>	Reel Dia (φ180)	Tape Width (mm)	A	8	
Reel Dia (φ180)	Tape Width (mm)									
A	8									

### TECHNICAL SPECIFICATIONS

Category Temperature Range:	-55 to +125°C
Rated Temperature:	+85°C
Capacitance Tolerance:	±20% at 120Hz
Dissipation Factor:	Refer to next page
ESR 100kHz:	Refer to next page
Leakage Current:	Refer to next page
	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.

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### CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage					*Cap Code
μF	Code	10V (1A)	16V (1C)	20V (1D)	25V (1E)	35 (1V)	
1.0	105					S	A
2.2	225						J
4.7	475						S
10	106		S				a
22	226	S					J
33	336	S					n
47	476	S					s

Released ratings

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

### RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	DCL (μA)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	100kHz RMS Current (mA)			*1 ΔC/C (%)	MSL
							25°C	85°C	125°C		
<b>10 Volt</b>											
F981A226MSAAS1	S	22	10	2.2	20	4.5	100	90	40	±20	3
F981A336MSAAS1	S	33	10	3.3	30	6.5	83	75	33	±30	3
F981A476MSAAS1	S	47	10	9.4	35	5.5	90	81	36	±30	3
<b>16 Volt</b>											
F981C106MSAAS1	S	10	16	1.6	18	4.5	100	90	40	±20	3
<b>35 Volt</b>											
F981V105MSAAS1	S	1	35	0.7	20	8.5	73	65	29	±30	3

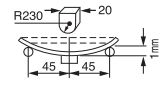
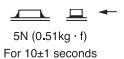
\*2: Leakage Current

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

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

### QUALIFICATION TABLE

TEST	F98-AS1 series (Temperature range -55°C to +125°C)	
	Condition	
<b>Damp Heat (Steady State)</b>	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied) Capacitance Change ..... Refer to the table above (*1) Dissipation Factor ..... 150% or less of initial specified value Leakage Current ..... 200% or less of initial specified value	
<b>Temperature Cycles</b>	-55°C / +125°C, 30 minutes each, 5 cycles Capacitance Change ..... Refer to the table above (*1) Dissipation Factor ..... 150% or less of initial specified value Leakage Current ..... 200% or less of initial specified value	
<b>Resistance to Soldering Heat</b>	10 seconds reflow at 260°C, 5 seconds immersion at 260°C. Capacitance Change ..... Refer to the table above (*1) Dissipation Factor ..... Initial specified value or less Leakage Current ..... Initial specified value or less	
<b>Surge</b>	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. Capacitance Change ..... Refer the table above (*1) Dissipation Factor ..... 150% or less of initial specified value Leakage Current ..... 200% or less of initial specified value	
<b>Endurance</b>	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. Capacitance Change ..... Refer to the table above (*1) Dissipation Factor ..... 150% or less of initial specified value Leakage Current ..... 200% or less of initial specified value	
<b>Shear Test</b>	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.	
<b>Terminal Strength</b>	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.	
<b>Fuse Activation</b>	5 seconds max. with 2A min. applied current	



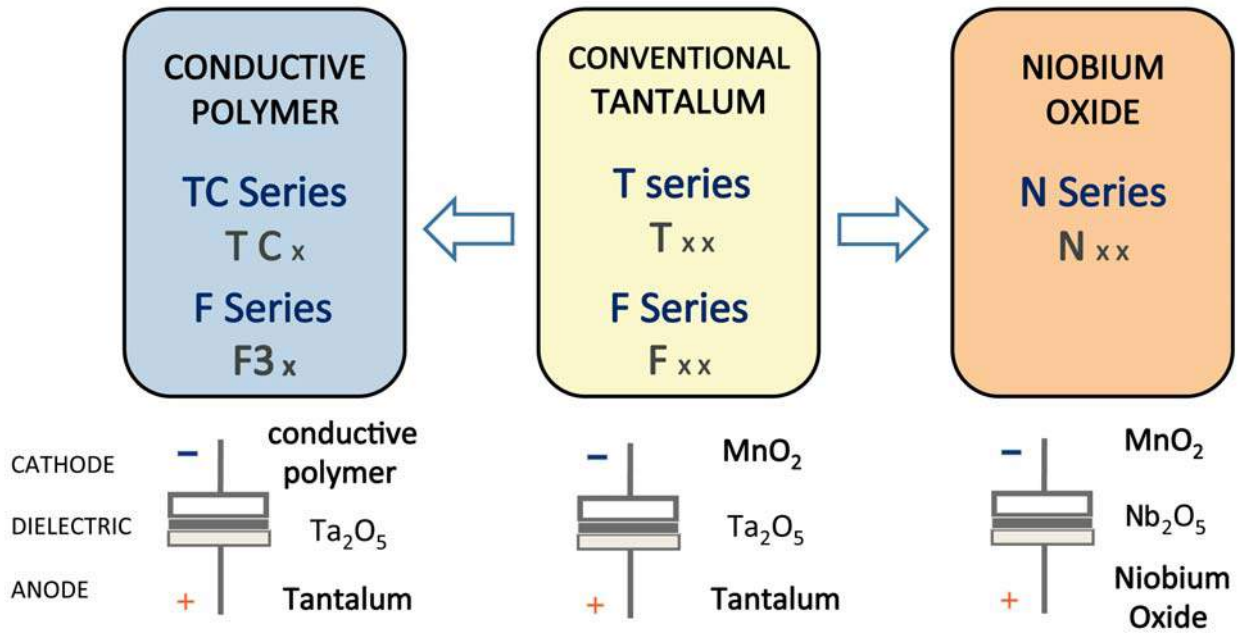
**NOTICE: DESIGN, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.**

# F98-AS1 Series

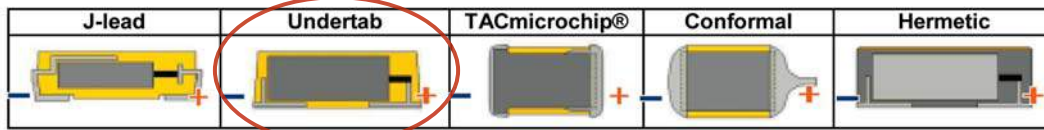


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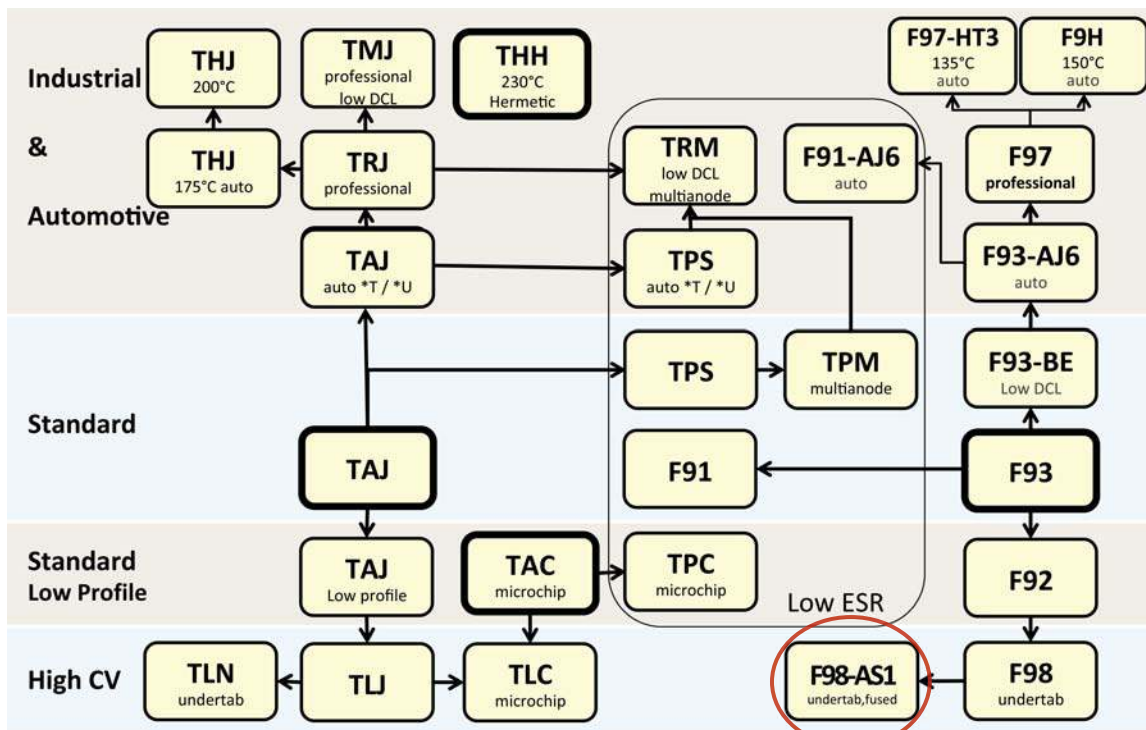
## AVX SOLID ELECTROLYTE CAPACITOR ROADMAP



### Five Capacitor Construction Styles



### SERIES LINE UP: CONVENTIONAL SMD MnO<sub>2</sub>



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 [AVX Corporation](#) Information

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