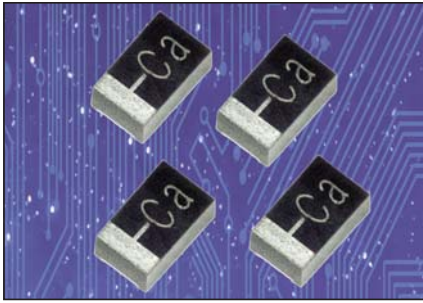


F98-AS1 Series



Fused Face-Down, High CV



FEATURES

- Compliant to the RoHS2 directive 2011/65/EU

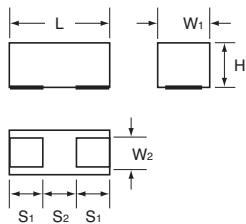
APPLICATIONS

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

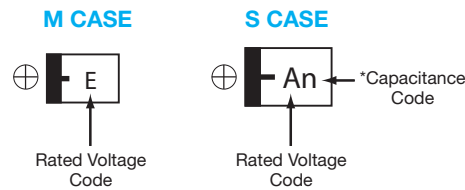


CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | EIA Metric | L | W ₁ | W ₂ | H | S ₁ | S ₂ |
|------|----------|------------|--|--|----------------------------|----------------------------|----------------------------|----------------------------|
| M | 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 (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) |



MARKING



HOW TO ORDER

F98 | **1A** | **336** | **M** | **S** | **AS1**
 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)

| 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. |

F98-AS1 Series



Fused Face-Down, High CV

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 | | M* | M* | M* | S | A |
| 2.2 | 225 | M* | M* | | | | J |
| 4.7 | 475 | M* | M* | | | | S |
| 10 | 106 | M* | S | | | | a |
| 22 | 226 | M*/S | | | | | J |
| 33 | 336 | M*/S | | | | | n |
| 47 | 476 | S | | | | | s |

Available Ratings

*Codes under development – subject to change

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

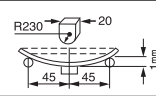
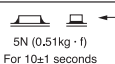
RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (μF) | Rated Voltage (V) | *2 DCL (μA) | DF @ 120Hz (%) | ESR @ 100kHz (Ω) | *1 ΔC/C (%) |
|----------------|-----------|------------------|-------------------|-------------|----------------|------------------|-------------|
| 10 Volt | | | | | | | |
| F981A226MSAAS1 | S | 22 | 10 | 2.2 | 20 | 4.5 | ±20 |
| F981A336MSAAS1 | S | 33 | 10 | 3.3 | 30 | 6.5 | ±30 |
| F981A476MSAAS1 | S | 47 | 10 | 9.4 | 35 | 5.5 | ±30 |
| 16 Volt | | | | | | | |
| F981C106MSAAS1 | S | 10 | 16 | 1.6 | 18 | 4.5 | ±20 |
| 35 Volt | | | | | | | |
| F981V105MSAAS1 | S | 1 | 35 | 0.7 | 20 | 8.5 | ±30 |

*2: Leakage Current
After 5 minute's application of rated voltage, leakage current at 20°C.

QUALIFICATION TABLE

| TEST | F98-AS1 series (Temperature range -55°C to +125°C) | |
|-------------------------------------|--|--|
| | Condition | |
| Damp Heat (Steady State) | 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 | |
| Temperature Cycles | -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 | |
| Resistance to Soldering Heat | 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 | |
| Surge | 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 to the table above (*1) Dissipation Factor 150% or less of initial specified value Leakage Current 200% or less of initial specified value | |
| Endurance | 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 | |
| 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 substrate so that the substrate may bend by 1mm as illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals. | |
| Fuse activation | 5 seconds max. with 2A min. applied current | |



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