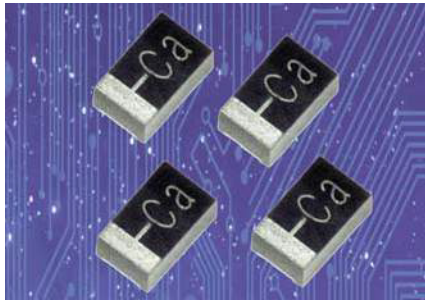


F98-AS1 Series

Fused Face-Down, High CV



FEATURES

- Compliant to the RoHS3 directive 2015/863/EU
- SMD Face Down Design
- Small and Low Profile
- 100% Surge Current Tested

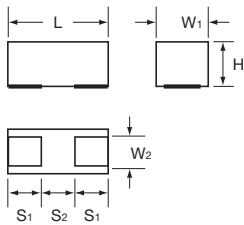


APPLICATIONS

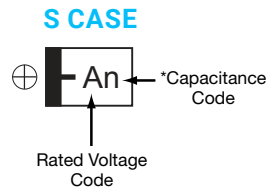
- Smartphone
- Mobile Phone
- Wireless Module
- Hearing Aid

CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | EIA Metric | L | W ₁ | W ₂ | H | S ₁ | S ₂ |
|------|----------|------------|--|--|----------------------------|----------------------------|----------------------------|----------------------------|
| 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 M = ±20% | Case Size See table above | Packaging | Fuse Series Code | | | | |
| | | pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow) | | | <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. |
| Termination Finish: | Gold Plating (standard) |

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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 KYOCERA AVX sales office when these series are being designed in your application.

RATINGS & PART NUMBER REFERENCE

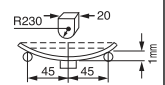
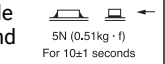
| Part Number | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) | DF @ 120Hz (%) | ESR @ 100kHz (Ω) | 100kHz RMS Current (mA) | | | *1 ΔC/C (%) | MSL |
|----------------|-----------|------------------|-------------------|----------|----------------|------------------|-------------------------|------|-------|-------------|-----|
| | | | | | | | 25°C | 85°C | 125°C | | |
| 10 Volt | | | | | | | | | | | |
| 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 |
| 16 Volt | | | | | | | | | | | |
| F981C106MSAAS1 | S | 10 | 16 | 1.6 | 18 | 4.5 | 100 | 90 | 40 | ±20 | 3 |
| 35 Volt | | | | | | | | | | | |
| 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

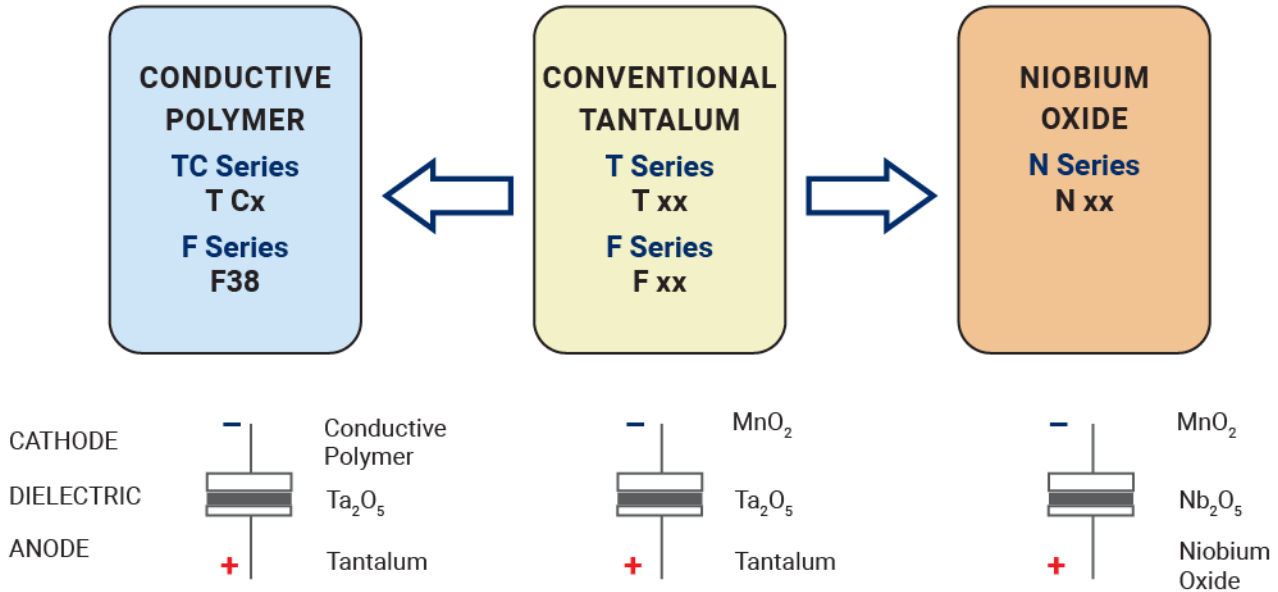
| TEST | F98-AS1 series (Temperature range -55°C to +125°C) | |
|-------------------------------------|---|--|
| | Condition | |
| Damp Heat (Steady State) | At 40°C, 90 to 95% R.H., 500 hours (No voltage applied) Capacitance Change Refer to the table above (*1) Dissipation Factor 150% or less of initial 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 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 | |



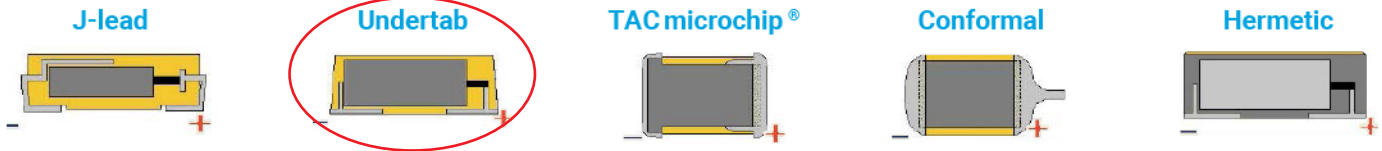
F98-AS1 Series

Fused Face-Down, High CV

SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: CONVENTIONAL SMD MnO₂

