

[1] Features

- Conformed to safety performances A1 and C1 of JIS C 5151,also Electrical Appliance and Material Safety Law.
- Self-healing.
- Wide temperature range.
- Pb(lead)-free product.
- RoHS Compliant product.



RoHS Compliant

[2]Construction

- ①**Style** :radial,powder epoxy dipped.
- ②**Winding** :non-inductively wound self-healing metallized polyester film.
- ③**Termination** :Pb-free tinned leads are electrically welded to the contact surface(metal end-spray)made by spraying the parts of metal contact materials on the ends of capacitor winding.
- ④**Coating** :multi dip,powder molded flame retardant epoxy resin(UL94V-O).

[3]Specifications

①General data

| | | | |
|---|---|---------------|--|
| Applicable standard | Electrical Appliance and Material Safety Law ,and JIS C5151 | | |
| Rated voltage(URAC)50/60Hz | 125VAC,250VAC | | |
| Capacitance range | A1 | 0.01uF~0.47uF | |
| | C1 | 0.01uF~4.7uF | |
| Capacitance tolerance | ±10%(K),±20%(M) | | |
| Operating temperature range (TR:+85°C,Tmax.:+105°C) | -40~+105°C *+85°C~+105°C:Derate the rated voltage as shown in the below fig. (70% of the rated voltage at +105°C) | | |

②Electrical data

| | | | |
|------------------------------------|------------------------|---------------------|---------------------|
| Withstand voltage | between leads | 2.3 URAC for 1 min. | |
| | between leads and case | 125VAC | 1,000VAC for 1 min. |
| 250VAC | | 1,500VAC for 1 min. | |
| Insulation resistance(Rins) | CR ≤ 0.47uF | > 2,000MΩ | 500VDC for 1 min. |
| | CR > 0.47uF | > 1,000s | |
| Dissipation factor(DF) | ≤ 1.0% at 1Khz | | |

*CR = Nominal Capacitance in μF

③**Safety performances** :When using this series capacitors as across-the-line capacitors for noise suppression,at least either one of the conditions shown below must be fulfilled;

- ①The capacitor must be parallel connected to the varistor with voltage specified.
- ②The capacitor operating voltage shall not exceed the pulse voltage specified.

| | | |
|-----------------------|-------------------------|----------------------|
| Capacitor URAC | Varistor voltage | Pulse voltage |
| 125V | 250V | 250V |
| 250V | 470V | 630V |

| | | |
|-----------------------------|---------------------------------|-------------------------------|
| | A1(Across-the-line) | C1(Coupling capacitor) |
| connecting condition | connected with load in parallel | connected with load in series |
| | | |

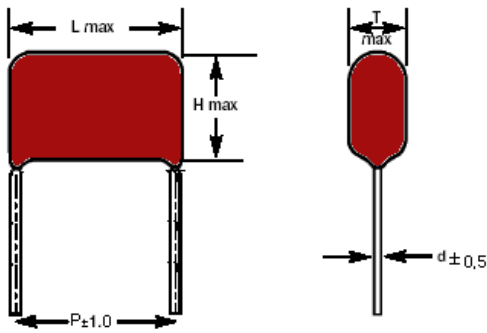
[4]Ordering/part number information

| | | | | | | | | | |
|------------|------------|----------|----------|----------|-----------|------------|----------|-----|-------------|
| CFS | 922 | M | F | - | 25 | 104 | K | | 0150 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |

- (1)Kind of capacitor:noise suppression capacitor on AC mains
- (2)Shape of capacitor:non-inductive wound,powder epoxy dipped
- (3)Dielectrics:polyester
- (4)Operating temperature:-40~+105°C
- (5)internal use
- (6)URAC:expressed in tens of volts of AC.
- (7)*Capacitance in pF:100,000pF=0.1uF
- (8)*Capacitance tolerance:±10%
- (9)*Packaging and lead configuration code:No code for bulk,loose parts in a poly.bag,straight long leads.
- (10)*Lead pitch:15mm

*For further details,refer to [\[Part numbering system & taping specification\]](#)

[5]Dimensions in mm



URAC:125V

| uF | L | H | T | d |
|---------------------|------|------|------|-----|
| pitch 7.5mm | | | | |
| 0.01 | 10.5 | 8.2 | 5.0 | 0.6 |
| 0.015 | 10.5 | 8.2 | 5.0 | 0.6 |
| 0.022 | 10.5 | 8.2 | 5.0 | 0.6 |
| 0.033 | 10.5 | 8.2 | 5.0 | 0.6 |
| 0.047 | 10.5 | 8.2 | 5.5 | 0.6 |
| 0.068 | 10.5 | 9.2 | 6.0 | 0.6 |
| pitch 10.0mm | | | | |
| 0.1 | 13.0 | 10.5 | 5.5 | 0.6 |
| 0.15 | 13.0 | 11.5 | 6.0 | 0.6 |
| 0.22 | 13.0 | 12.5 | 7.5 | 0.6 |
| pitch 15.0mm | | | | |
| 0.33 | 18.0 | 13.0 | 6.0 | 0.8 |
| 0.47 | 18.0 | 14.0 | 7.0 | 0.8 |
| 0.68 | 18.0 | 16.5 | 8.0 | 0.8 |
| pitch 22.5mm | | | | |
| 1.0 | 26.0 | 16.5 | 7.5 | 0.8 |
| 1.5 | 26.0 | 17.5 | 8.5 | 0.8 |
| pitch 27.5mm | | | | |
| 2.2 | 31.5 | 19.0 | 9.5 | 0.8 |
| 3.3 | 31.5 | 21.0 | 11.5 | 0.8 |
| 4.7 | 31.5 | 24.5 | 13.0 | 0.8 |

URAC:250V

| uF | L | H | T | d |
|---------------------|------|------|------|-----|
| pitch 10.0mm | | | | |
| 0.01 | 13.0 | 10.0 | 5.5 | 0.6 |
| 0.015 | 13.0 | 10.5 | 6.0 | 0.6 |
| 0.022 | 13.0 | 11.0 | 6.0 | 0.6 |
| 0.033 | 13.0 | 11.5 | 6.5 | 0.6 |
| 0.047 | 13.0 | 13.0 | 7.0 | 0.6 |
| pitch 15.0mm | | | | |
| 0.068 | 18.0 | 11.0 | 6.0 | 0.8 |
| 0.1 | 18.0 | 13.0 | 7.0 | 0.8 |
| 0.15 | 18.0 | 15.0 | 8.0 | 0.8 |
| 0.22 | 18.0 | 16.5 | 9.0 | 0.8 |
| pitch 22.5mm | | | | |
| 0.33 | 26.0 | 16.5 | 7.5 | 0.8 |
| 0.47 | 26.0 | 18.0 | 8.5 | 0.8 |
| 0.68 | 26.0 | 21.5 | 10.0 | 0.8 |
| pitch 27.5mm | | | | |
| 1.0 | 31.5 | 22.5 | 11.5 | 0.8 |
| 1.5 | 31.5 | 25.5 | 13.5 | 0.8 |
| 2.2 | 31.5 | 29.0 | 16.5 | 0.8 |

*For further details, refer to [General technical information of \(RFI/EMI\)noise suppression capacitors on AC mains](#)