

Type 935 Axial Leaded Metallized Polypropylene Film Capacitors

Capacitors for Power Supplies and High Current Circuits

[查询"935C1W5K-F"供应商](#)



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

Type 935 axial-leaded, metallized polypropylene capacitors are designed for 20-100 kHz switching power supply input filtering, DC blocking and output filter applications where high current, high capacitance and low ESR values are important. Dry sections are sealed with flame-retardant outer wrap and epoxy end seals for moisture resistance. This film capacitor has Underwriters Laboratories, Inc. recognition for construction only under U.L. File Number E128034(N).

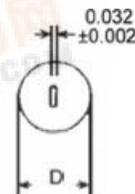
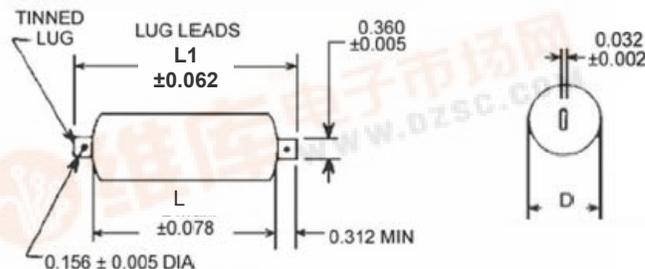
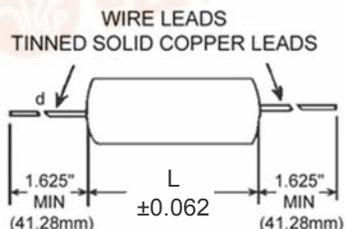
Highlights

- Great for high current circuits
- Available with lugs
- Flame-retardant outer wrap

Specifications

| | |
|-------------------------------------|--|
| Capacitance Range: | 1.0 μ F to 30.0 μ F |
| Voltage Range: | 100 Vdc to 400 Vdc (70 Vac to 250 Vac, 60 Hz) |
| Capacitance Tolerance: | $\pm 10\%$ (K) Standard; $\pm 5\%$ (J) Optional |
| Operating Temperature Range: | $-55\text{ }^{\circ}\text{C}$ to $+105\text{ }^{\circ}\text{C}$ *Full-rated voltage at $85\text{ }^{\circ}\text{C}$, Derate linearly to 50% rated voltage at $105\text{ }^{\circ}\text{C}$ |
| Dielectric Strength: | 200% for 1 minute |
| Dissipation Factor: | 0.1% Max. @ $25\text{ }^{\circ}\text{C}$, 1 kHz |
| Insulation Resistance: | 200,000 $\text{M}\Omega \times \mu\text{F}$ |
| Life Test: | 1,000 hours @ $85\text{ }^{\circ}\text{C}$, 125% rated voltage |

Outline Drawings



Ratings

RoHS Compliant

| Cap. (μ F) | Catalog Part Number | D (Inches) | D (mm) | L ± 0.062 | | d (Inches) | d (mm) | Max. ESR 20-100 kHz (m Ω) | dV/dt (V/ μ s) | Max. Ripple Current (Amps RMS) 20-100 kHz Case Temperature | | | | | | | | |
|------------------------|---------------------|-------------------|--------------------|---------------|--------|------------|--------|-----------------------------------|--------------------|--|--------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--|--|
| | | | | (Inches) | (mm) | | | | | +25 $^{\circ}\text{C}$ | +35 $^{\circ}\text{C}$ | +45 $^{\circ}\text{C}$ | +55 $^{\circ}\text{C}$ | +65 $^{\circ}\text{C}$ | +75 $^{\circ}\text{C}$ | +85 $^{\circ}\text{C}$ | | |
| With Wire Leads | | | | | | | | | | | 100 Vdc (70 Vac) | | | | | | | |
| 1 | 935C1W1K-F | 0.469 \pm 0.062 | (11.9) \pm (1.6) | 0.750 | (19.0) | 0.032 | (0.8) | 15 | 25 | 9.2 | 8.5 | 7.8 | 7.0 | 6.0 | 4.9 | 4.5 | | |
| 2 | 935C1W2K-F | 0.534 \pm 0.062 | (13.6) \pm (1.6) | 0.938 | (23.8) | 0.032 | (0.8) | 12 | 16 | 10.8 | 10.0 | 9.1 | 8.2 | 7.0 | 5.8 | 5.3 | | |
| 3 | 935C1W3K-F | 0.624 \pm 0.093 | (15.8) \pm (2.4) | 0.938 | (23.8) | 0.040 | (1.0) | 11 | 16 | 12.1 | 11.2 | 10.3 | 9.2 | 8.0 | 6.5 | 5.9 | | |
| 5 | 935C1W5K-F | 0.640 \pm 0.093 | (16.3) \pm (2.4) | 1.250 | (31.7) | 0.040 | (1.0) | 10 | 10 | 13.8 | 12.7 | 11.6 | 10.4 | 9.0 | 7.4 | 6.7 | | |
| 10 | 935C1W10K-F | 0.805 \pm 0.093 | (20.4) \pm (2.4) | 1.500 | (38.1) | 0.040 | (1.0) | 9 | 8 | 15.0 | 15.0 | 14.2 | 12.7 | 11.0 | 9.0 | 8.2 | | |
| 20 | 935C1W20K-F | 0.875 \pm 0.125 | (22.2) \pm (3.2) | 2.250 | (57.1) | 0.040 | (1.0) | 8 | 5 | 15.0 | 15.0 | 15.0 | 15.0 | 13.6 | 11.1 | 10.0 | | |
| 30 | 935C1W30K-F | 1.075 \pm 0.125 | (27.3) \pm (3.2) | 2.250 | (57.1) | 0.040 | (1.0) | 6 | 5 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 12.4 | 11.4 | | |
| With Wire Leads | | | | | | | | | | | 200 Vdc (140 Vac) | | | | | | | |
| 1 | 935C2W1K-F | 0.450 \pm 0.062 | (11.4) \pm (1.6) | 1.250 | (31.7) | 0.032 | (0.8) | 20 | 15 | 7.3 | 7.3 | 7.3 | 7.3 | 7.2 | 5.9 | 5.4 | | |
| 2 | 935C2W2K-F | 0.605 \pm 0.093 | (15.4) \pm (2.4) | 1.250 | (31.7) | 0.032 | (0.8) | 15 | 15 | 12.0 | 12.0 | 11.3 | 10.1 | 8.7 | 7.1 | 6.5 | | |
| 3 | 935C2W3K-F | 0.654 \pm 0.093 | (16.6) \pm (2.4) | 1.500 | (38.1) | 0.040 | (1.0) | 13 | 12 | 15.0 | 13.8 | 12.6 | 11.3 | 9.8 | 8.0 | 7.3 | | |
| 5 | 935C2W5K-F | 0.769 \pm 0.093 | (19.5) \pm (2.4) | 1.750 | (44.4) | 0.040 | (1.0) | 11 | 9 | 15.0 | 15.0 | 14.7 | 13.1 | 11.4 | 9.3 | 8.5 | | |
| 10 | 935C2W10K-F | 0.905 \pm 0.125 | (23.0) \pm (3.2) | 2.250 | (57.1) | 0.040 | (1.0) | 9 | 7 | 15.0 | 15.0 | 15.0 | 15.0 | 13.8 | 11.3 | 10.3 | | |
| 20 | 935C2W20K-F | 1.315 \pm 0.125 | (33.4) \pm (3.2) | 2.250 | (57.1) | 0.040 | (1.0) | 6 | 7 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 14.1 | 12.8 | | |



Type 935 Axial Leaded Metallized Polypropylene Film Capacitors

[查询"935C1W5K-F"供应商](#)

| Cap. (μ F) | Catalog Part Number | D | | L \pm 0.062 | | d | | Max. ESR 20-100 kHz | | Max. Ripple Current (Amps RMS) 20-100 kHz | | | | | | |
|--------------------------|------------------------|-------------------|--------------------|---------------|--------|----------|--------|------------------------|-----------------------|---|--------|--------|--------|--------|--------|--------|
| | | (Inches) | (mm) | (Inches) | (mm) | (Inches) | (mm) | (m Ω) | dV/dt (V/ μ s) | Case Temperature | | | | | | |
| | | | | | | | | | | +25 °C | +35 °C | +45 °C | +55 °C | +65 °C | +75 °C | +85 °C |
| With Wire Leads | | | | | | | | | | | | | | | | |
| 400 Vdc (250 Vac) | | | | | | | | | | | | | | | | |
| 1 | 935C4W1K-F | 0.620 \pm 0.093 | (15.7) \pm (2.4) | 1.500 | (38.1) | 0.032 | (0.8) | 19 | 19 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 7.8 | 7.1 |
| 2 | 935C4W2K-F | 0.802 \pm 0.093 | (20.4) \pm (2.4) | 1.750 | (44.4) | 0.040 | (1.0) | 15 | 16 | 15.0 | 15.0 | 15.0 | 13.4 | 11.6 | 9.5 | 8.7 |
| 3 | 935C4W3K-F | 0.961 \pm 0.125 | (24.4) \pm (3.2) | 1.750 | (44.4) | 0.040 | (1.0) | 12 | 16 | 15.0 | 15.0 | 15.0 | 15.0 | 13.1 | 10.7 | 9.8 |
| 5 | 935C4W5K-F | 1.067 \pm 0.125 | (27.1) \pm (3.2) | 2.250 | (57.1) | 0.040 | (1.0) | 10 | 11 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 12.5 | 11.4 |
| 10 | 935C4W10K-F | 1.543 \pm 0.125 | (39.2) \pm (3.2) | 2.250 | (57.1) | 0.040 | (1.0) | 6 | 11 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 14.1 |
| With Lug Leads | | | | | | | | | | | | | | | | |
| 100 Vdc (70 Vac) | | | | | | | | | | | | | | | | |
| 1 | 935H1W1K-F | 0.469 \pm 0.062 | (11.9) \pm (1.6) | 0.750 | (19.0) | 1.640 | (41.6) | 15 | 25 | 10.3 | 9.5 | 8.7 | 7.8 | 6.7 | 5.5 | 5.0 |
| 2 | 935H1W2K-F | 0.534 \pm 0.062 | (13.6) \pm (1.6) | 0.938 | (23.8) | 1.828 | (46.4) | 12 | 16 | 12.0 | 11.0 | 10.0 | 8.9 | 7.8 | 6.3 | 5.8 |
| 3 | 935H1W3K-F | 0.624 \pm 0.093 | (15.8) \pm (2.4) | 0.938 | (23.8) | 1.828 | (46.4) | 11 | 16 | 13.3 | 12.3 | 11.2 | 10.0 | 8.7 | 7.1 | 6.5 |
| 5 | 935H1W5K-F | 0.640 \pm 0.093 | (16.3) \pm (2.4) | 1.250 | (31.7) | 2.098 | (53.3) | 10 | 10 | 14.8 | 13.7 | 12.5 | 11.2 | 9.7 | 7.9 | 7.2 |
| 10 | 935H1W10K-F | 0.803 \pm 0.093 | (20.4) \pm (2.4) | 1.500 | (38.1) | 2.252 | (57.2) | 9 | 8 | 17.8 | 16.5 | 15.0 | 13.5 | 11.7 | 9.5 | 8.7 |
| 20 | 935H1W20K-F | 0.875 \pm 0.125 | (22.2) \pm (3.2) | 2.250 | (57.1) | 3.054 | (77.6) | 8 | 5 | 21.6 | 20.0 | 18.3 | 16.4 | 14.2 | 11.6 | 10.6 |
| 30 | 935H1W30K-F | 1.075 \pm 0.125 | (27.3) \pm (3.2) | 2.250 | (57.1) | 3.054 | (77.6) | 6 | 5 | 24.3 | 22.5 | 20.5 | 18.4 | 15.9 | 13.0 | 11.9 |
| With Lug Leads | | | | | | | | | | | | | | | | |
| 200 Vdc (140 Vac) | | | | | | | | | | | | | | | | |
| 1 | 935H2W1K-F | 0.450 \pm 0.062 | (11.4) \pm (1.6) | 1.250 | (31.7) | 2.098 | (53.3) | 20 | 15 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 6.4 | 5.8 |
| 2 | 935H2W2K-F | 0.605 \pm 0.093 | (15.4) \pm (2.4) | 1.250 | (31.7) | 2.098 | (53.3) | 15 | 15 | 14.3 | 13.3 | 12.1 | 10.8 | 9.4 | 7.7 | 7.0 |
| 3 | 935H2W3K-F | 0.654 \pm 0.093 | (16.6) \pm (2.4) | 1.500 | (38.1) | 2.252 | (57.2) | 13 | 12 | 15.9 | 14.7 | 13.5 | 12.0 | 10.4 | 8.5 | 7.8 |
| 5 | 935H2W5K-F | 0.768 \pm 0.093 | (19.5) \pm (2.4) | 1.750 | (44.4) | 2.570 | (65.3) | 11 | 9 | 18.3 | 17.0 | 15.5 | 13.9 | 12.0 | 9.8 | 8.9 |
| 10 | 935H2W10K-F | 0.905 \pm 0.125 | (23.0) \pm (3.2) | 2.250 | (57.1) | 3.054 | (77.6) | 9 | 7 | 22.4 | 20.7 | 18.9 | 16.9 | 14.6 | 12.0 | 10.9 |
| 20 | 935H2W20K-F | 1.315 \pm 0.125 | (33.4) \pm (3.2) | 2.250 | (57.1) | 3.054 | (77.6) | 6 | 7 | 27.4 | 25.4 | 23.2 | 20.7 | 17.9 | 14.7 | 13.4 |
| With Lug Leads | | | | | | | | | | | | | | | | |
| 400 Vdc (250 Vac) | | | | | | | | | | | | | | | | |
| 1 | 935H4W1K-F | 0.620 \pm 0.093 | (15.7) \pm (2.4) | 1.500 | (38.1) | 2.252 | (57.2) | 19 | 19 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 8.3 | 7.5 |
| 2 | 935H4W2K-F | 0.802 \pm 0.093 | (20.4) \pm (2.4) | 1.750 | (44.4) | 2.570 | (65.3) | 15 | 16 | 15.0 | 15.0 | 15.0 | 14.2 | 12.3 | 10.0 | 9.1 |
| 3 | 935H4W3K-F | 0.961 \pm 0.125 | (24.4) \pm (3.2) | 1.750 | (44.4) | 2.570 | (65.3) | 12 | 16 | 21.1 | 19.5 | 17.8 | 15.9 | 13.8 | 11.3 | 10.3 |
| 5 | 935H4W5K-F | 1.067 \pm 0.125 | (27.1) \pm (3.2) | 2.250 | (57.1) | 3.054 | (77.6) | 10 | 11 | 24.4 | 22.6 | 20.6 | 18.5 | 16.0 | 13.1 | 11.9 |
| 10 | 935H4W10K-F | 1.543 \pm 0.125 | (39.2) \pm (3.2) | 2.250 | (57.1) | 3.054 | (77.6) | 6 | 11 | 30.0 | 27.8 | 25.4 | 22.7 | 19.7 | 16.1 | 14.7 |