

Type 150 Axial Leaded Metallized Polyester Flame Retardant Wrap and Fill Axial Leaded Capacitors



The Type 150 series axial lead metallized polyester non inductive capacitors are available in bulk or on tape and reel for automatic insertion. Type 150 is a general purpose capacitor for use in blocking, bypass, decoupling, smoothing and some timing applications.

Highlights

- Available on tape and reel or bulk
- Epoxy end fill meets UL94V-0
- Non inductively wound
- Flame retardant outer wrap meets UL510
- Non polar

Specifications

| | |
|--------------------------------------|--|
| Capacitance Range: | 0.001 μF to 10.0 μF |
| Voltage Range: | 63 to 1000 Vdc |
| Capacitance Tolerance: | $\pm 5\%$, $\pm 10\%$, $\pm 20\%$ |
| Operating Temperature Range: | $-55\text{ }^\circ\text{C}$ to $+125\text{ }^\circ\text{C}$ (derate linearly to 50% rated voltage at $125\text{ }^\circ\text{C}$) |
| Dielectric Withstand Voltage: | 1.6 x rated voltage for 2 s @ $+25\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$ |
| Dissipation Factor (DF): | $\text{tg}\delta \times 10^{-4}$ at $+25\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$ |

| kHz | $C \leq 0.1\ \mu\text{F}$ | $0.1\ \mu\text{F} < C \leq 1\ \mu\text{F}$ | $C > 1\ \mu\text{F}$ |
|-----|---------------------------|--|----------------------|
| 1 | 80 | 80 | 100 |
| 10 | 150 | 150 | — |
| 100 | 250 | — | — |

| | |
|---|--|
| Insulation Resistance: | 10,000 $\text{M}\Omega \times \mu\text{F}$, 30,000 $\text{M}\Omega$ Min. |
| Self Inductance: | 1 nH max. per 1 mm lead and body length |
| Life Test: | 1000 hrs @ $85\text{ }^\circ\text{C}$ $1.25 \times V_n$ |
| Damp Heat Test: | 95% RH @ $+45\text{ }^\circ\text{C}$ for 21 days |
| Soldering: | $260\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$ for 10 s ± 1 s |
| Long Term Storage Stability: | $\Delta C/C \leq \pm 3\%$ after 2 years |
| Maximum Pulse Rise Time dv/dt and Pulse Characteristic (Wo): | |

| V/n | L Max | | | | dV/dt (V/ μsec) W_o ($\text{V}^2/\mu\text{sec}$) |
|---------|--------|-----------|-------------|-----------|---|
| | 16.5 | 19 - 20.5 | 26.5 - 5.28 | 31.5 - 33 | |
| 50 - 63 | 4 | 2 | 1.5 | 1 | |
| | 504 | 252 | 189 | 126 | |
| 100 | 5 | 3 | 2 | 1 | |
| | 1,000 | 600 | 400 | 300 | |
| 250 | 10 | 7 | 4 | 2.5 | |
| | 5,000 | 3,500 | 2,000 | 1,250 | |
| 400 | 13.5 | 10 | 6.5 | 4 | |
| | 10,800 | 8,000 | 5,200 | 3,200 | |
| 630 | 20 | 15 | 10 | 6 | |
| | 25,200 | 18,900 | 12,600 | 7,500 | |



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 150 Axial Leaded Metallized Polyester

Tape and Reel Specifications

Outline Drawing

| L Max (Body Lengthy) | | Lead Spacing | | Distance Between Reel Flanges | | Class |
|-------------------------|-----------|--------------|------|----------------------------------|----|-------|
| Inches | mm | Inches | mm | Inches | mm | |
| ≤.433 | ≤11 | 2.06 | 52.4 | 3 | 75 | 1 |
| .551 - .808 | 14 - 20.5 | 2.5 | 63.6 | 3.4 | 86 | 2 |
| ≥1.03 | ≥26 | 2.87 | 73 | 3.7 | 95 | 3 |

^Add class number (1, 2, or 3) to catalog number to indicate tape and reel

| Diameter | | Quantity per Reel |
|----------------|--------------|-------------------|
| Inches | mm | |
| 0.197 | 5 | 3,000 |
| .236 thru .256 | 6.0 thru 6.5 | 1,200 |
| 0.276 | 7 | 1,100 |
| .315 thru .346 | 8 thru 8.5 | 800 |
| .354 thru .413 | 9 thru 10.5 | 500 |
| .433 thru .512 | 11 thru 13 | 300 |
| .551 thru .571 | 14 thru 14.5 | 200 |
| >.571 | >14.5 | Not available |



Ratings

| Catalog Part Number | Cap (µF) | Inches Max | | | Millimeters Max | | |
|------------------------|-------------|------------|-------|-------|-----------------|------|-----|
| | | D | L | Ød | D | L | Ød |
| 63 Vdc | | | | | | | |
| 150154*63AA^ | 0.150 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150154*63BB^ | 0.150 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150184*63AA^ | 0.180 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150184*63BB^ | 0.180 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150224*63BB^ | 0.220 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150274*63BB^ | 0.270 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150334*63BB^ | 0.330 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150394*63CB^ | 0.390 | 0.256 | 0.650 | 0.024 | 6.5 | 16.5 | 0.6 |
| 150474*63DB^ | 0.470 | 0.276 | 0.650 | 0.024 | 7.0 | 16.5 | 0.6 |
| 150564*63DB^ | 0.560 | 0.276 | 0.650 | 0.024 | 7.0 | 16.5 | 0.6 |
| 150684*63DC^ | 0.680 | 0.276 | 0.807 | 0.024 | 7.0 | 20.5 | 0.6 |
| 150824*63EC^ | 0.820 | 0.315 | 0.807 | 0.031 | 8.0 | 20.5 | 0.8 |
| 150105*63EC^ | 1.000 | 0.315 | 0.807 | 0.031 | 8.0 | 20.5 | 0.8 |
| 150155*63HC^ | 1.500 | 0.374 | 0.807 | 0.031 | 9.5 | 20.5 | 0.8 |
| 150225*63HE^ | 2.200 | 0.374 | 1.102 | 0.031 | 9.5 | 28.0 | 0.8 |
| 150335*63KE^ | 3.300 | 0.433 | 1.102 | 0.031 | 11.0 | 28.0 | 0.8 |
| 150475*63ME^ | 4.700 | 0.492 | 1.102 | 0.031 | 12.5 | 28.0 | 0.8 |
| 150685*63QF^ | 6.800 | 0.571 | 1.299 | 0.031 | 14.5 | 33.0 | 0.8 |
| 150106*63TF^ | 10.000 | 0.610 | 1.299 | 0.031 | 15.5 | 33.0 | 0.8 |
| 100 Vdc | | | | | | | |
| 150683*100AA^ | 0.068 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150683*100BB^ | 0.068 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150823*100AA^ | 0.082 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150823*100BB^ | 0.082 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150104*100AA^ | 0.100 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150104*100BB^ | 0.100 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150124*100BB^ | 0.120 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150154*100BB^ | 0.150 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150184*100CB^ | 0.180 | 0.256 | 0.650 | 0.024 | 6.5 | 16.5 | 0.6 |
| 150224*100CB^ | 0.220 | 0.256 | 0.650 | 0.024 | 6.5 | 16.5 | 0.6 |

| Catalog Part Number | Cap (µF) | Inches Max | | | Millimeters Max | | |
|------------------------|-------------|------------|-------|-------|-----------------|------|-----|
| | | D | L | Ød | D | L | Ød |
| 150274*100CB^ | 0.270 | 0.256 | 0.650 | 0.024 | 6.5 | 16.5 | 0.6 |
| 150334*100EB^ | 0.330 | 0.315 | 0.650 | 0.031 | 8.0 | 16.5 | 0.8 |
| 150394*100EB^ | 0.390 | 0.315 | 0.650 | 0.031 | 8.0 | 16.5 | 0.8 |
| 150474*100DC^ | 0.470 | 0.276 | 0.807 | 0.031 | 7.0 | 20.5 | 0.8 |
| 150564*100EC^ | 0.560 | 0.315 | 0.807 | 0.031 | 8.0 | 20.5 | 0.8 |
| 150684*100FC^ | 0.680 | 0.335 | 0.807 | 0.031 | 8.5 | 20.5 | 0.8 |
| 150824*100HC^ | 0.820 | 0.374 | 0.807 | 0.031 | 9.5 | 20.5 | 0.8 |
| 150105*100IC^ | 1.000 | 0.394 | 0.807 | 0.031 | 10.0 | 20.5 | 0.8 |
| 100 Vdc | | | | | | | |
| 150155*100IE^ | 1.500 | 0.394 | 1.102 | 0.031 | 10.0 | 28.0 | 0.8 |
| 150225*100LE^ | 2.200 | 0.453 | 1.102 | 0.031 | 11.5 | 28.0 | 0.8 |
| 150335*100PE^ | 3.300 | 0.531 | 1.102 | 0.031 | 13.5 | 28.0 | 0.8 |
| 150475*100RF^ | 4.700 | 0.591 | 1.299 | 0.031 | 15.0 | 33.0 | 0.8 |
| 150685*100WF^ | 6.800 | 0.689 | 1.299 | 0.031 | 17.5 | 33.0 | 0.8 |
| 150106*100YF^ | 10.000 | 0.807 | 1.299 | 0.031 | 20.5 | 33.0 | 0.8 |
| 250 Vdc | | | | | | | |
| 150123*250AA^ | 0.012 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150123*250BB^ | 0.012 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150153*250AA^ | 0.015 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150153*250BB^ | 0.015 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150183*250AA^ | 0.018 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150183*250BB^ | 0.018 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150223*250AA^ | 0.022 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150223*250BB^ | 0.022 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150273*250AA^ | 0.027 | 0.197 | 0.433 | 0.024 | 5.0 | 11.0 | 0.6 |
| 150273*250BB^ | 0.027 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |

* Indicates capacitance tolerance

^If ordering tape and reel,

J = ±5%, K = ±10%, M = ±20%

insert 1, 2, or 3.

See tape & reel specifications to determine which class applies.

Part Number highlighted in yellow, available until stock is depleted.

Replacement part number with "BB" case size.

Type 150 Axial Leaded Metallized Polyester

| Catalog Part Number | Cap (μ F) | Inches Max | | | Millimeters Max | | |
|---------------------------|-------------------|------------|-------|-----------------|-----------------|------|-----------------|
| | | D | L | \varnothing d | D | L | \varnothing d |
| 630 Vdc | | | | | | | |
| 150682*630AA [^] | 0.0068 | 0.197 | 0.433 | 0.024 | 5.5 | 11.0 | 0.6 |
| 150682*630BB [^] | 0.0068 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150822*630BB [^] | 0.0082 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150103*630BB [^] | 0.0100 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150123*630BB [^] | 0.0120 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150153*630BB [^] | 0.0150 | 0.236 | 0.650 | 0.024 | 6.0 | 16.5 | 0.6 |
| 150183*630CB [^] | 0.0180 | 0.256 | 0.650 | 0.024 | 6.5 | 16.5 | 0.6 |
| 150223*630DB [^] | 0.0220 | 0.276 | 0.650 | 0.024 | 7.0 | 16.5 | 0.6 |
| 150273*630CC [^] | 0.0270 | 0.256 | 0.807 | 0.024 | 6.5 | 20.5 | 0.6 |
| 150333*630EC [^] | 0.0330 | 0.315 | 0.807 | 0.031 | 8.0 | 20.5 | 0.8 |
| 150393*630EC [^] | 0.0390 | 0.315 | 0.807 | 0.031 | 8.0 | 20.5 | 0.8 |
| 150473*630EC [^] | 0.0470 | 0.315 | 0.807 | 0.031 | 8.0 | 20.5 | 0.8 |
| 150563*630FC [^] | 0.0560 | 0.335 | 0.807 | 0.031 | 8.5 | 20.5 | 0.8 |
| 150683*630GC [^] | 0.0680 | 0.354 | 0.807 | 0.031 | 9.0 | 20.5 | 0.8 |
| 150823*630HC [^] | 0.0820 | 0.374 | 0.807 | 0.031 | 9.5 | 20.5 | 0.8 |
| 150104*630FE [^] | 0.1000 | 0.335 | 1.102 | 0.031 | 8.5 | 28.0 | 0.8 |
| 150124*630GE [^] | 0.1200 | 0.354 | 1.102 | 0.031 | 9.0 | 28.0 | 0.8 |
| 150154*630IE [^] | 0.1500 | 0.394 | 1.102 | 0.031 | 10.0 | 28.0 | 0.8 |
| 150184*630JE [^] | 0.1800 | 0.413 | 1.102 | 0.031 | 10.5 | 28.0 | 0.8 |
| 150224*630LE [^] | 0.2200 | 0.453 | 1.102 | 0.031 | 11.5 | 28.0 | 0.8 |
| 150274*630ME [^] | 0.2700 | 0.492 | 1.102 | 0.031 | 12.5 | 28.0 | 0.8 |
| 150334*630NF [^] | 0.3300 | 0.512 | 1.299 | 0.031 | 13.0 | 33.0 | 0.8 |
| 150394*630QF [^] | 0.3900 | 0.571 | 1.299 | 0.031 | 14.5 | 33.0 | 0.8 |
| 150474*630RF [^] | 0.4700 | 0.591 | 1.299 | 0.031 | 15.0 | 33.0 | 0.8 |
| 150564*630TF [^] | 0.5600 | 0.610 | 1.299 | 0.031 | 15.5 | 33.0 | 0.8 |
| 150684*630WF [^] | 0.6800 | 0.689 | 1.299 | 0.031 | 17.5 | 33.0 | 0.8 |
| 150824*630XF [^] | 0.8200 | 0.728 | 1.299 | 0.031 | 18.5 | 33.0 | 0.8 |
| 150105*630YF [^] | 1.0000 | 0.807 | 1.299 | 0.031 | 20.5 | 33.0 | 0.8 |

| Catalog Part Number | Cap (μ F) | Inches Max | | | Millimeters Max | | |
|-----------------------------|-------------------|------------|-------|-----------------|-----------------|------|-----------------|
| | | D | L | \varnothing d | D | L | \varnothing d |
| 1000 Vdc | | | | | | | |
| 150102*1000CB [^] | 0.0010 | 0.256 | 0.650 | 0.031 | 6.5 | 16.5 | 0.6 |
| 150152*1000CB [^] | 0.0015 | 0.256 | 0.650 | 0.031 | 6.5 | 16.5 | 0.6 |
| 150222*1000CB [^] | 0.0022 | 0.256 | 0.650 | 0.031 | 6.5 | 16.5 | 0.6 |
| 150332*1000CB [^] | 0.0033 | 0.256 | 0.650 | 0.031 | 6.5 | 16.5 | 0.6 |
| 150472*1000DB [^] | 0.0047 | 0.276 | 0.650 | 0.031 | 7.0 | 16.5 | 0.6 |
| 150682*1000EB [^] | 0.0068 | 0.315 | 0.650 | 0.031 | 8.0 | 16.5 | 0.8 |
| 150103*1000DC [^] | 0.0100 | 0.276 | 0.807 | 0.031 | 7.0 | 20.5 | 0.6 |
| 150153*1000FC [^] | 0.0150 | 0.335 | 0.807 | 0.031 | 8.5 | 20.5 | 0.8 |
| 150223*1000HC [^] | 0.0220 | 0.374 | 0.807 | 0.031 | 9.5 | 20.5 | 0.8 |
| 150333*1000FE [^] | 0.0330 | 0.335 | 1.102 | 0.031 | 8.5 | 28 | 0.8 |
| 150473*1000HE [^] | 0.0470 | 0.374 | 1.102 | 0.031 | 9.5 | 28 | 0.8 |
| 150683*1000KE [^] | 0.0680 | 0.433 | 1.102 | 0.031 | 11.0 | 28 | 0.8 |
| 150104*1000NE [^] | 0.1000 | 0.512 | 1.102 | 0.031 | 13.0 | 28 | 0.8 |
| 150154*1000OF [^] | 0.1500 | 0.551 | 1.299 | 0.031 | 14.0 | 33 | 0.8 |
| 150224*1000WF [^] | 0.2200 | 0.689 | 1.299 | 0.031 | 17.5 | 33 | 0.8 |
| 150334*1000YF [^] | 0.3300 | 0.807 | 1.299 | 0.031 | 20.5 | 33 | 0.8 |
| 150474*1000Z1F [^] | 0.4700 | 0.945 | 1.299 | 0.031 | 24.0 | 33 | 0.8 |

* Indicates capacitance tolerance [^]If ordering tape and reel,
J = \pm 5%, K = \pm 10%, M = \pm 20% insert 1, 2, or 3.

See tape & reel specifications to determine which class applies.
Part Number highlighted in yellow, available until stock is depleted.
Replacement part number with "BB" case size.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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