

# 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

<b>Capacitance Range:</b>	0.001 $\mu\text{F}$ to 10.0 $\mu\text{F}$
<b>Voltage Range:</b>	63 to 1000 Vdc (40 to 250 Vac @ 60 Hz)
<b>Capacitance Tolerance:</b>	$\pm 5\%$ , $\pm 10\%$ , $\pm 20\%$
<b>Operating Temperature Range:</b>	$-55\text{ }^\circ\text{C}$ to $+125\text{ }^\circ\text{C}$ (derate linearly to 50% rated voltage at $125\text{ }^\circ\text{C}$ )
<b>Dielectric Withstand Voltage:</b>	1.6 x rated voltage for 2 s @ $+25\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$
<b>Dissipation Factor (DF):</b>	$\text{tg}\delta \times 10^{-4}$ at $+25\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$

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

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

V/n	L Max				dV/dt (V/ $\mu\text{sec}$ ) W <sub>o</sub> (V <sup>2</sup> / $\mu\text{sec}$ )
	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 Length)		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
<b>63 Vdc/40 Vac</b>							
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
<b>100 Vdc/63 Vac</b>							
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
<b>100 Vdc/63 Vac</b>							
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
<b>250 Vdc/160 Vac</b>							
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 (µF)	Inches Max			Millimeters Max		
		D	L	Ød	D	L	Ød
<b>250 Vdc/160 Vac</b>							
150333*250AA <sup>^</sup>	0.0330	0.197	0.433	0.024	5.0	11.0	0.6
150333*250BB <sup>^</sup>	0.0330	0.236	0.650	0.024	6.0	16.5	0.6
150393*250AA <sup>^</sup>	0.0390	0.197	0.433	0.024	5.0	11.0	0.6
150393*250BB <sup>^</sup>	0.0390	0.236	0.650	0.024	6.0	16.5	0.6
150473*250AA <sup>^</sup>	0.0470	0.197	0.433	0.024	5.0	11.0	0.6
150473*250BB <sup>^</sup>	0.0470	0.236	0.650	0.024	6.0	16.5	0.6
150563*250AA <sup>^</sup>	0.0560	0.197	0.433	0.024	5.0	11.0	0.6
150563*250BB <sup>^</sup>	0.0560	0.236	0.650	0.024	6.0	16.5	0.6
150683*250BB <sup>^</sup>	0.0680	0.236	0.650	0.024	6.0	16.5	0.6
150823*250BB <sup>^</sup>	0.0820	0.236	0.650	0.024	6.0	16.5	0.6
150104*250CB <sup>^</sup>	0.1000	0.256	0.650	0.024	6.5	16.5	0.6
150124*250DB <sup>^</sup>	0.1200	0.276	0.650	0.024	7.0	16.5	0.6
150154*250EB <sup>^</sup>	0.1500	0.315	0.650	0.031	8.0	16.5	0.8
150184*250EB <sup>^</sup>	0.1800	0.315	0.650	0.031	8.0	16.5	0.8
150224*250FB <sup>^</sup>	0.2200	0.335	0.650	0.031	8.5	16.5	0.8
150274*250EC <sup>^</sup>	0.2700	0.315	0.807	0.031	8.0	20.5	0.8
150334*250FC <sup>^</sup>	0.3300	0.335	0.807	0.031	8.5	20.5	0.8
150394*250GC <sup>^</sup>	0.3900	0.354	0.807	0.031	9.0	20.5	0.8
150474*250HC <sup>^</sup>	0.4700	0.374	0.807	0.031	9.5	20.5	0.8
150564*250IC <sup>^</sup>	0.5600	0.394	0.807	0.031	10.0	20.5	0.8
150684*250GE <sup>^</sup>	0.6800	0.354	1.102	0.031	9.0	28.0	0.8
150824*250HE <sup>^</sup>	0.8200	0.374	1.102	0.031	9.5	28.0	0.8
150105*250JE <sup>^</sup>	1.0000	0.413	1.102	0.031	10.5	28.0	0.8
150155*250ME <sup>^</sup>	1.5000	0.492	1.102	0.031	12.5	28.0	0.8
150225*250PF <sup>^</sup>	2.2000	0.531	1.299	0.031	13.5	33.0	0.8
150335*250TF <sup>^</sup>	3.3000	0.610	1.299	0.031	15.5	33.0	0.8
150475*250XF <sup>^</sup>	4.7000	0.728	1.299	0.031	18.5	33.0	0.8
150685*250ZF <sup>^</sup>	6.8000	0.845	1.299	0.031	21.5	33.0	0.8
<b>400 Vdc/200 Vac</b>							
150822*400AA <sup>^</sup>	0.0082	0.197	0.433	0.024	5.0	11.0	0.6
150822*400BB <sup>^</sup>	0.0082	0.236	0.650	0.024	6.0	16.5	0.6
150103*400AA <sup>^</sup>	0.0100	0.197	0.433	0.024	5.0	11.0	0.6
150103*400BB <sup>^</sup>	0.0100	0.236	0.650	0.024	6.0	16.5	0.6
150123*400AA <sup>^</sup>	0.0120	0.197	0.433	0.024	5.0	11.0	0.6
150123*400BB <sup>^</sup>	0.0120	0.236	0.650	0.024	6.0	16.5	0.6
150153*400BB <sup>^</sup>	0.0150	0.236	0.650	0.024	6.0	16.5	0.6
150183*400BB <sup>^</sup>	0.0180	0.236	0.650	0.024	6.0	16.5	0.6
150223*400BB <sup>^</sup>	0.0220	0.236	0.650	0.024	6.0	16.5	0.6
150273*400BB <sup>^</sup>	0.0270	0.236	0.650	0.024	6.0	16.5	0.6
150333*400BB <sup>^</sup>	0.0330	0.236	0.650	0.024	6.0	16.5	0.6
150393*400CB <sup>^</sup>	0.0390	0.256	0.650	0.024	6.5	16.5	0.6
150473*400DB <sup>^</sup>	0.0470	0.276	0.650	0.024	7.0	16.5	0.6
150563*400EB <sup>^</sup>	0.0560	0.315	0.650	0.024	8.0	16.5	0.6

Catalog Part Number	Cap (µF)	Inches Max			Millimeters Max		
		D	L	Ød	D	L	Ød
150683*400DC <sup>^</sup>	0.0680	0.276	0.807	0.024	7.0	20.5	0.6
150823*400EC <sup>^</sup>	0.0820	0.315	0.807	0.031	8.0	20.5	0.8
150104*400EC <sup>^</sup>	0.1000	0.315	0.807	0.031	8.0	20.5	0.8
150124*400EC <sup>^</sup>	0.1200	0.315	0.807	0.031	8.0	20.5	0.8
150154*400GC <sup>^</sup>	0.1500	0.354	0.807	0.031	9.0	20.5	0.8
150184*400EE <sup>^</sup>	0.1800	0.315	1.102	0.031	8.0	28.0	0.8
150224*400FE <sup>^</sup>	0.2200	0.335	1.102	0.031	8.5	28.0	0.8
150274*400GE <sup>^</sup>	0.2700	0.354	1.102	0.031	9.0	28.0	0.8
150334*400IE <sup>^</sup>	0.3300	0.394	1.102	0.031	10.0	28.0	0.8
150394*400JE <sup>^</sup>	0.3900	0.413	1.102	0.031	10.5	28.0	0.8
150474*400LF <sup>^</sup>	0.4700	0.453	1.299	0.031	11.5	33.0	0.8
150564*400LF <sup>^</sup>	0.5600	0.453	1.299	0.031	11.5	33.0	0.8
150684*400MF <sup>^</sup>	0.6800	0.492	1.299	0.031	12.5	33.0	0.8
150824*400PF <sup>^</sup>	0.8200	0.531	1.299	0.031	13.5	33.0	0.8
150105*400QF <sup>^</sup>	1.0000	0.571	1.299	0.031	14.5	33.0	0.8
150155*400WF <sup>^</sup>	1.5000	0.689	1.299	0.031	17.5	33.0	0.8
150225*400YF <sup>^</sup>	2.2000	0.807	1.299	0.031	20.5	33.0	0.8
<b>630 Vdc/220 Vac</b>							
150102*630AA <sup>^</sup>	0.0010	0.197	0.433	0.024	5.0	11.0	0.6
150102*630BB <sup>^</sup>	0.0010	0.236	0.650	0.024	6.0	16.5	0.6
150122*630AA <sup>^</sup>	0.0012	0.197	0.433	0.024	5.0	11.0	0.6
150122*630BB <sup>^</sup>	0.0012	0.236	0.650	0.024	6.0	16.5	0.6
150152*630AA <sup>^</sup>	0.0015	0.197	0.433	0.024	5.5	11.0	0.6
150152*630BB <sup>^</sup>	0.0015	0.236	0.650	0.024	6.0	16.5	0.6
150182*630AA <sup>^</sup>	0.0018	0.197	0.433	0.024	5.5	11.0	0.6
150182*630BB <sup>^</sup>	0.0018	0.236	0.650	0.024	6.0	16.5	0.6
150222*630AA <sup>^</sup>	0.0022	0.197	0.433	0.024	5.5	11.0	0.6
150222*630BB <sup>^</sup>	0.0022	0.236	0.650	0.024	6.0	16.5	0.6
150272*630AA <sup>^</sup>	0.0027	0.197	0.433	0.024	5.5	11.0	0.6
150272*630BB <sup>^</sup>	0.0027	0.236	0.650	0.024	6.0	16.5	0.6
150332*630AA <sup>^</sup>	0.0033	0.197	0.433	0.024	5.5	11.0	0.6
150332*630BB <sup>^</sup>	0.0033	0.236	0.650	0.024	6.0	16.5	0.6
150392*630AA <sup>^</sup>	0.0039	0.197	0.433	0.024	5.5	11.0	0.6
150392*630BB <sup>^</sup>	0.0039	0.236	0.650	0.024	6.0	16.5	0.6
150472*630AA <sup>^</sup>	0.0047	0.197	0.433	0.024	5.5	11.0	0.6
150472*630BB <sup>^</sup>	0.0047	0.236	0.650	0.024	6.0	16.5	0.6
150562*630AA <sup>^</sup>	0.0056	0.197	0.433	0.024	5.5	11.0	0.6
150562*630BB <sup>^</sup>	0.0056	0.236	0.650	0.024	6.0	16.5	0.6

\* Indicates capacitance tolerance <sup>^</sup>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.





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

Наши преимущества:

- 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;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- 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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

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